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CM nucleic - nucleic search, using sw model

Run on: January 31, 2004, 13:36:50 ; Search time 95 Seconds

(without alignments)
6328.040 Million cell updates/sec

Title: US-10-084-406-1

Perfect score: 1362

Sequence: 1 atgaagatttcaatgta.....atctactaccatcatga 1362

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents_NA.*

1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*

2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*

3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*

4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*

5: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq.*

6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	191.8	14.1	2128	3	US-09-233-506-1
2	185.2	13.6	1807	1	US-08-118-906-13
3	185.2	13.6	1807	1	US-08-486-196-13
4	185.2	13.6	1807	1	US-08-488-135-13
5	185.2	13.6	1807	2	US-08-474-085-13
6	172	12.6	2105	1	US-07-955-041-3
7	172	12.6	2105	1	US-08-227-455-3
8	172	12.6	2105	1	US-08-472-482-3
9	172	12.6	2105	1	US-08-487-069-3
10	160.8	11.8	2102	3	US-09-063-237-3
11	121.2	8.9	378	1	US-08-118-906-1
12	121.2	8.9	378	1	US-08-486-196-1
13	121.2	8.9	378	1	US-08-488-135-1
14	121.2	8.9	378	2	US-08-474-065-1
15	92.2	6.8	378	1	US-08-118-906-3
16	92.2	6.8	378	1	US-08-486-196-3
17	92.2	6.8	378	1	US-08-488-135-3
18	92.2	6.8	378	2	US-08-474-085-3
19	80.8	5.9	997	4	US-09-478-476-307
20	53.4	3.9	192	3	US-09-233-506-9
21	49.4	3.6	777	4	US-09-149-476-181
22	46.2	3.4	6171	4	US-08-961-527-37
23	42	3.1	99	1	US-08-118-906-5
24	42	3.1	99	1	US-08-486-196-5
25	42	3.1	99	1	US-08-488-135-5
26	42	3.1	99	1	US-08-474-085-5
27	40.6	3.0	7430	4	US-08-976-259-64

C	28	37.2	2.7	7218	1	US-08-232-463-14	Sequence 14, Appli
	29	35.2	2.6	99	1	US-08-118-908-7	Sequence 7, Appli
	30	35.2	2.6	99	1	US-08-486-196-7	Sequence 7, Appli
	31	35.2	2.6	99	1	US-08-488-135-7	Sequence 7, Appli
	32	35.2	2.6	99	2	US-08-474-065-7	Sequence 7, Appli
C	33	35	2.6	1437	4	US-09-137-223A-4	Sequence 4, Appli
C	34	35	2.6	1664976	4	US-08-916-421B-1	Sequence 1, Appli
	35	34.4	2.5	8494	4	US-08-961-527-163	Sequence 163, App
	36	34.2	2.5	3822	3	US-08-675-566-8	Sequence 8, Appli
	37	34.2	2.5	3861	3	US-08-675-566-11	Sequence 11, Appl
	38	34.2	2.5	3888	3	US-08-675-566-12	Sequence 12, Appl
	39	34.2	2.5	3955	3	US-08-675-566-10	Sequence 10, Appl
	40	34.2	2.5	4009	3	US-08-675-566-9	Sequence 9, Appli
	41	34.2	2.5	4503	3	US-08-675-566-7	Sequence 7, Appli
	42	34.2	2.5	7379	3	US-08-675-566-13	Sequence 13, Appl
	43	34	2.5	1928	3	US-08-675-816-4	Sequence 4, Appli
C	44	33.8	2.5	5241	4	US-08-809-513A-1	Sequence 1, Appli
C	45	33.8	2.5	5241	4	US-08-809-513A-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-233-506-1
; Sequence 1, Application US/09233506
; Patent No. 6136580

GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Yeh, Jium-Chern

; TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms
; FILE OF INVENTION: Core 2, Core 4 and 1 Branches
; FILE REFERENCE: P-LJ 3415
; CURRENT APPLICATION NUMBER: US/09/233,506
; CURRENT FILING DATE: 1999-01-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 2128

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (354)..(1670)

US-09-233-506-1

Query Match	14.1%;	Score	191.8;	DB	3;	Length	2128;
Best Local Similarity	52.5%;	Pred. No.	1.1e-42;				
Matches	517;	Conservative	0;	Mismatches	432;	Indels	36;
Gaps	3;						
QY	317	TCACGAGTGTGACATTTATCAGACTCTAGAGGTTATGCTCAAAAGCTTGCTCAA	376				
DB	670	TCACGAGACTGTGACACTTCAAGGCTGAAGGAGTTTACAGTCCCACTGAGCA	729				
QY	377	AGGAGGAGAAAGCTTCCCAATAGCCCTATTCTTTGGTTGTCACAAAGATGCAATTATGG	436				
DB	730	AAGAAGAGTGGAGTTCCTTATTCATCTCTATGTTGATTCATGAGAGATTGAAACT	789				
QY	437	TGAAGGCTTATCCATGCTATATACACAGACACATATTTACTGCATCCATTATGATC	496				
DB	790	TGAAGGCTTATCCATGCTATATACACAGACACATATTTACTGCATCCATTATGATC	849				
QY	497	GTAAGGACCTGTATCTCAAAAGTTCCCATGAACAAATTTAGCTAGTGTCTTCCAATA	556				
DB	850	AGAAGTCCCAAGAACTTCAAGAGGCGGTCAAGCAATTTCTTCTTCCCAATG	909				
QY	557	TTTTTATGCTTCCAAATTAGAGCTGTGAAATATGCAATTTCCAGACTCCAGGCTG	616				
DB	910	TCATTATGCTTCCAAATTAGAGCTGTGAAATATGCAATTTCCAGACTCCAGGCTG	969				
QY	617	ATTTAAATGCTTGTGCGACCTTCTGAAGTCTTCAATCCAGTGGAAATATGTTATCAACT	676				
DB	970	ACCTCACTGATGAGAGACTTGTCTCCAGAGCTCAGTCCGCTGGAATATCTTCTCTGAATA	1029				

QY 677 TGTGTGGGCAAGATTTTCCCTCAAGTCAAAATTTTGAATTTGGTGTCTCAGAGTTGAAAAAC 736
Db 1030 CATGTGGGACGGACTTTCTATAAAGAGCAATGCAGAGATGGTCCAGGCTCTCAAGATGT 1089
QY 737 TCAATGGAGCAATATGTTGGAGAGGGTCAACACCCCAACAGTAAATTTGGAAGATTCA 796
Db 1090 TGAATGGGAGGATAGCATGGAGTCAAGAGTACCTCCCTAAGCACAAGAAACCCGCTGGA 1149
QY 797 CTTTACCATCATGAACCTTAGACGGGTGCCCTTATGAATATGTGAAGCTACCAATAAGGCAA 856
Db 1150 AATATCATTGAGGTAGTGAGAGACACATTACAC-----CTAACCA 1191
QY 857 ACATCTCCAGAGACACCCCCCAATACATTCAGATATTTTGGGAGTGTATTATTTG 916
Db 1192 ACAAGAAGAGGATCTCCCTCCCTTAAATTTAACTATGTTTACAGGGAATCGTACATTG 1251
QY 917 TTTTAAAGTCAAGCATTTGTTAAATATATTTTCAACAACTCCCATCGTTCAAGACTTTTTT 976
Db 1252 TGGCTTCCCGAGATTTTCGTCACACATGTTTGAAGAACCCCTAAATCCCAACACTGATTG 1311
QY 977 CTGTGCTTAAAGACACATCTCTCTGTATGAGACCTTTTGGGCTACCTTGTATCGGGTTC 1036
Db 1312 AATGGGTAAAGACACTTATAGCCAGATGAACACTCTGGGGCCACCCCTTCAGGGTGCAC 1371
QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGGATG---TGCTGATCTGCAGAGTA 1093
Db 1372 GGTGGATGCTGCTCTGTTTCCACCACCCCAATGACATCTCAGACATGACTTCTA 1431
QY 1094 AGACTCGCTGTCAAGTGAATTAATGAAGGCTTTTCTATCCCACT----- 1143
Db 1432 TTGCCAGGCTGTCAAGTGGCAGGTCATGAGGAGACATCGATAAGGGTCTCCTTATG 1491
QY 1144 -----TGTACTGATCTCACTTCCAGGCTGTGATTTATGGAGCTCAGAAATTAAGT 1198
Db 1492 CTCCTGCTCTGAATCCACAGCGGCTATCTGCTTTATGGGCTGGGACTTGATTT 1551
QY 1199 GGCTTATCAAGATGACATTTGTTTGTCTAATAAATTTGATTTAAGTGGACCTATCT 1258
Db 1552 GGATGCTTCAAAACCATCACTGTTGGCCACAAGTTTGACCCAAAGGTAGATGATA 1611
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
Db 1612 CTCTTCAGTCTTAGAAGAACTCT 1636

RESULT 2
US-08-118-906-13
Sequence 13, Application US/08118906
Patent No. 5484590
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
APPLICANT: Bierhuizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,906
FILING DATE: 09-SEP-1993
CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1807 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 255..1454
US-08-118-906-13
Query Match 13.6%; Score 185.2; DB 1; Length 1807;
Best Local Similarity 52.1%; Pred. No. 6.4e-41;
Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;
QY 327 TTGTGACATTTATCAGACTCTAAGAGGTTATGCTCAAAAGCTTGTCTCAAGAGAGAGAA 386
Db 467 TTGCAAGGAATACTTGGACCCAGAGCCACTACATCAGAGCCCTTTATCTAAGGAAGAAGC 526
QY 387 AAGCTTCCCAATAGCCTATTCTTTGGTTGTCCCAAGAGATGCAATATGTTGAAAAGGCT 446
Db 527 TGACTTTCCCTTGGCATATATATGTTGTCATCCATCATCTTTGACACCTTTGCAAGGCT 586
QY 447 TATCCAGTCTATATACAAACAGCAATATTTATGTCATCCATATGATGATGATGATGATGATG 506
Db 587 CTTGAGGCTATTTACATGCTCCCAAAATATCTACTGTGTTCTATGATGATGATGATGATGATG 646
QY 507 TGATACCTTCAAGTGGCATGAACTTTAGCTTCTTCCAAATATTTTCAATTTGCT 566
Db 647 AACTGAAATTAAGAGTGGGTAGAGCAACTATTAAGCTGTTTCCAAACGCTTTTCTGSC 706
QY 567 TTCCAAATTAGAGGCTGTGGAAATATGCCCACTTTCCAGACTCCAGGCTGATTTAAATTG 626
Db 707 TTCCAAAGATGAAACCCGTTGTCTATGAGGAGATCTCCAGGCTCCAGGCTGACCTGAATG 766
QY 627 CTTGTGGACCTTCTGAAGTCTTCAATCCAGTGGAAATATGTTATCAACTTGTGTGGCA 686
Db 767 CATCAGAGATCTTCTGCTTCGAGGCTCTCANGAAGTACGTTATCAACCTGTGGCA 826
QY 687 AGATTTTCCCTGAACTCAAAATTTTGAATTTGGTGTCTCAGAGTTGAAAAAACTCAATGGAGC 746
Db 827 AGACTTCCCTGAAACCAACCAAGGAATAGTTTCAGTATCTGAAAGGATTTAAAGGTAA 886
QY 747 AAATATGTTGGAGGCTGAAACCCCAACAGTAAATTTGAAAGATTCCTTACCATCA 806
Db 887 AAATATCAACCCCGGGGTGTCGCCCGGCTCATGCAATTTGGAGCGGCTAAATATGTCCA 946
QY 807 TCAACTTAGAGGGGTGCTTATGAATATGTAAGTGAAGCTTACCAATTAAGGACAAACATCTCCA 866
Db 947 CCAAGACACCTTGGCA-----AAGAGCTTCTCTATGATGATGAAGAACACAGCTTGA 1000
QY 867 GGAAGCACCCCCCAATACATTCAGATTTTGTGGAGAGTCTTATTTTGTGTTTAAAGTCA 926
Db 1001 ACCGCTCTCCCCCAATATCTCACAATTTATTTTGGCTCTGCCCTATGTGCTCTATCAAG 1060
QY 927 AGCATTTGTTAAATATATTTTCAACACTCCATCGTTTCAAGACTTTTTCCTGCTGCTAA 986
Db 1061 AGATTTTGGCACTTTTGTCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1120
QY 987 AGACACATCTCTCTGATGAGCTTTTGGGCTACTCTTGTGCTGCTGCTGCTGCTGCTGCTGCT 1046
Db 1121 GGACACTTTCAGTCTCTGATGAGCTTTTGGGCTGACACTCAATAGGATTCAGGCTGTTC 1180
QY 1047 TGGGGAGATTTCCAGATCAGCCAGGATGTGTCTGATCTCTCAGAGTAAAGACTGCTGCTTGT 1106

Db 1181 TGGCTCTATGCCAATGCATCCTCGACTG-----GAAACCTCAGACTAT 1225
QY 1107 CAAGTGGAAATCTATGAAGGCTTTTCTATCCAGTTGTACTGATCTCAGCTTCGAAG 1166
Db 1226 AAAGTGGAGTGCATGGAAGACAGACACGGAGG- --TGCCACGGCCACTATGTACATGG 1282
QY 1167 COTGTGATTTTATGAGCTGCAGAAATTAAGTGGCTTATCAAAAGATGGACATTTGGTTTCG 1226
Db 1283 TATTGTATCTATGGAACGGAGACTTAAAGTGGCTGGTTAATTCACAGCCTGTTTCG 1342
QY 1227 TAATAAATTTGATCTAAGTGGACCTATCTTGTGATTAATGTTTGGCAGAAAGCTTGA 1286
Db 1343 TAACAAGTTTGAGCTTAATACCTACCCCTTACTGTGGAAATGCTAGAACTGAGGATCG 1402
QY 1287 AGAA 1290
Db 1403 CGAA 1406

RESULT 3
US-08-486-196-13
; Sequence 13, Application US/08486196
; Patent No. 5731420
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,196
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1807 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 255..1454
; US-08-486-196-13

Query Match 13.6%; Score 185.2; DB 1; Length 1807;
Best Local Similarity 52.1%; Pred. No. 6.4e-41;
Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;
QY 327 TTGTGACATTTATCAGACTCTTAAGAGGTTATGCTCAAAAGCTTGTCTCAAAAGGAGGAA 386

Db 467 TTGCAGGAATCTTGAACCCAGAGCCACTATCATCAGAGCCCTTTTATCTAAGAGAGAGC 526
QY 387 AAGCTTCCCAATAGCCTATCTCTTGGTGTGCACAAAGATGCAATATATGTTTGAAGGCT 446
Db 527 TGACTTTCCCTTGGCATATATAATGTCATCCATCATCTTTGACACCTTTGCAAGGCT 586
QY 447 TATCCATGCTATATACAACAGCAGCAATATTTACTGTCATCCATTATGATCGTAAAGGCACC 506
Db 587 CTTGAGGCTATTTATATGCCCCCAAAATATCTACTGTGTTTATGTGGATGAAGAGCAAC 646
QY 507 TGATACCTTCAAAAGTTGCCATGAACAAATTTAGCTAAGTGTCTCTCAATATTTTCAATGCG 566
Db 647 AACTGAATTTAAAGATGCGGTAGAGCAACTATTAAGCTGCTTCCCAAAAGCGCTTTCTGCG 706
QY 567 TTCCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTGATTTAAATTG 626
Db 707 TTCCAAGATGAACCCGTTGTCTATGAGGGATCTCCAGGCTCCAGGCTGACCTGAACTG 766
QY 627 CTTGTGCGACCTTCTGAAGTCTTTCAATCCAGTGGAAATATGTTATCAACTTGTGTGGGCA 686
Db 767 CATCAGAGATCTTTCTGCTTTCAGGTCTCATGGAAGTACGTTATCAACACCTGTGGGCA 826
QY 687 AGATTTCCCTCGAAGTCAAAATTTTGAATTTGGTGTGTCAGAGTTGAAAGAACTCAATGGAGC 746
Db 827 AGACTTCCCTCGAAGTCAAAATTTTGAATTTGGTGTGTCAGATCTGAAAGGATTTAAAGGTAA 886
QY 747 AAATATGTTGAGACGCTGAAACCCCAACAGTAAATTTGGAAGATTCACCTTACCATCA 806
Db 887 AAATATCACCAGGGGTGCTGCCCCAGCTCATGCAATTTGACGGACTAAATATGTCCA 946
QY 807 TGAATCTAGACGGGTGCTTATGAATATGTAAGTACCAATTAAGGACAAACATCTCCAA 866
Db 947 CCAGAGCACCTGGGCA-----AAGAGCTTTCTTATGTGATAAGAACCAACAGCGTTGAA 1000
QY 867 GGAAGCACCCCCCAATCAATTCAGATATTTGTTGGCAGTGTCTATTTTGTGTTTAAAGTCA 926
Db 1001 ACCGCTTCCCCCATTAATCTCAATTTACTTTGCTCTGCTATGTGCTCTATCAAG 1060
QY 927 AGCATTTGTTAAATATATTTTCAACAACTCCATCGTTCAGACTTTTTTGGCTGTCTTAA 986
Db 1061 AGAGTTTGGCAACTTTGTTCTGATGACCCACGGGCTGTTGATTTGCTCCAGTGTGCTCAA 1120
QY 987 AGACACATCTCTCCTGATGAGCACATTTTGGGCTACCTTGTTCGGGTTCCAGGAAATACC 1046
Db 1121 GGACACTTTCAGTCTGATGAGCATTTCTGGGTGACACTCAATAGATTCAGGTGTTC 1180
QY 1047 TGGGAGATTTCCAGATTCAGCCCGAGGATGTCTGATCTGCAGAGTAAGACTCGCCTTGT 1106
Db 1181 TGGCTCTATGCCAAATGCATCTCTGGACTG-----GAAACCTCAGAGCTAT 1225
QY 1107 CAAGTGAATTAATGAAGGCTTTTCTTATCCAGTTGTACTGGATCTCACCTTCGAG 1166
Db 1226 AAGTGGAGTGACATGGAAGACAGACACGGAGG- --TGCCACGGCCACTATGTACATGG 1282
QY 1167 CGTGTGATTTATGGAGCTGCAGAAATTAAGGTGGCTTATCAAGATGGAATTTGTTTCG 1226
Db 1283 TATTGTATCTATGGAACGGAGACTTAAAGTGGCTGGTTAATTCACCAAGCCTGTTTCG 1342
QY 1227 TAATAAATTTGATCTTAAGTGGACCTTATCTTGTATTAATGCTTGGCAGAAAGCTTGA 1286
Db 1343 TAACAAGTTTGAGCTTAATACCTACCCCTTACTGTGGAATGCTTGTGGAATGCTAGAGCTG 1402
QY 1287 AGAA 1290
Db 1403 CGAA 1406

RESULT 4
US-08-488-135-13
; Sequence 13, Application US/08488135
; Patent No. 5766910
; GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
APPLICANT: Bierhuizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,135
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1807 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 255..1454
US-08-488-135-13

Query Match 13.6%; Score 185.2; DB 1; Length 1807;
Best Local Similarity 52.1%; Pred. No. 6.4e-41;
Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;
QY 327 TTGTGACATTTATCAGACTTAAGAGGTTATGCTCAAAAGCTTGCTCAAAAGGAGGAGAA 386
DB 467 TTGCAAGGAATCTTGACCCAGAGCCACTACATCAGAGCCCTTTATCTAAGGAAGAGC 526
QY 387 AAGCTTCCCAATAGCCTATCTTTGGTTGCTCCAAAGATGCAATATGGTTGAAGGCT 446
DB 527 TGACTTTCCCTGGCATATATAATGCTATCCATCATCTTTGACACCTTTGCAAGGCT 586
QY 447 TATCCATGCTATATACCAACAGCACAATATTTACTGCTATTCATATGATGCTAAGGACCC 506
DB 587 CTTGAGGGCTATTTATGATGCTCCCAAAATATCTATGTTCTATGATGATGAAGAACAC 646
QY 507 TGATACCTTCAAAAGTTGCCATGACAAATTTAGCTAAGTCTTCTCCAAATATTTTCATG 566
DB 647 AACTGAATTTAAGATGCGGTAGAGCACTAATAGCTGCTTCCCAAGCGCTTTCTGGC 706
QY 567 TTCCAAATGAGGCTGTGAATATGCCACATTTCCAGACTCCAGGCTGATTTAATG 626
DB 707 TTCCAAATGAGAACCGGTGCTTATGAGGGATCTCCAGGCTCCAGGCTGACCTGAACTG 766
QY 627 CTTGCTCGGACTTCTGAAGTCTTCAATCCAGTGAATATGTTATCAACTTTGTGGGCA 686
DB 767 CATCAGAGATCTTTCTGCTCTCGAGTCTCATGGAAGTACGTTATCAACACCTGTGGCA 826
QY 687 AGATTTCCCTGAGTCAAAATTTTGAATTTGGTGTGTCAGAGTTGAAAAACTCAATGGAGC 746

DB 827 AGACTTCCCTCGAAACCAACAGGAATAGTTAGTATCTGAAAGGATTTAAAGGTAA 886
QY 747 AAATATGTTGGAGACGGTGAACCCCAACAGTAATTAATGGAAAGATTCACCTTACATCA 806
DB 887 AAATATCACCACCAAGGGGTGCTGCCCCAGCTCATGCAATTTGGACGACTAAATATGTCCA 946
QY 807 TGAACCTTAGACGGGTGCCCTTATGAATATGTGAAGCTTACCACAAATGAAGCACAACATCTCCAA 866
DB 947 CCAAGACACCTGGCA-----AAGAGCTTTCCATGTGTAAGAACACAGCGTTGAA 1000
QY 867 GGAAGCACCCCCCATATAACATTCAGATATTTGTGGCAGTGTCTATTTTGTGTTTAAATCA 926
DB 1001 ACCGCTTCCCCCATATAATCTCAAAATTTACTTTGGCTCTGCTATGTGGCTCTATCAAG 1060
QY 927 AGCATTTGTTAAATATATTTTCAACAACTCCATCGTTCAAGACTTTTTTGCCTGCTCTAA 986
DB 1061 AGATTTGGCAACTTTGTTCTGATGATGACCCAGGCTGTTGATTTGCTCCAGTGGTCCAA 1120
QY 987 AGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTTGATTCGGGTTCCAGGAATACC 1046
DB 1121 GGACACTTTCAGTCTGATGAGCACTTTGGGCTGACACTCAATAGGATTCAGGTTGTTCC 1180
QY 1047 TGGGAGATTTCCAGATCAGCCAGGATGTGTGATCTGCAGAGTAAGACTCGCCTTCT 1106
DB 1181 TGGCTCTATGCCAAATGATCTCTGGACTG-----GAACTCTCAGACTAT 1225
QY 1107 CAAGTGAATTTACTATGAGAGGCTTTTTTCTATCCAGTTGTACTTGGATCTCCTCTCGAAG 1166
DB 1226 AAGTGGAGTGACATGGAAGACAGACAGCGAGGC---TGCCAGGCGCACTATGTATCATCG 1282
QY 1167 CGTGTGATTTTGGAGCTCGAATTAAGTGTGCTTATCAAGATGGACATTTGTTTGC 1226
DB 1283 TATTTGATCTATGGAACCGGAGACTTAAAGTGGCTGTTAATTCACCAAGCTGTTTC 1342
QY 1227 TAATAAATTTGATTTCTAAGGTGGACCCCTATCTTGAATTAATGCTTGGCAGAAAGTTGA 1286
DB 1343 TACAGATTTGAGCTTAATACCTACCCCTTACTGTGGAATGCTAGAACTGAGGCATCG 1402
QY 1287 AGAA 1290
DB 1403 CGAA 1406

RESULT 5

US-08-474-065-13
Sequence 13, Application US/08474065
Patent No. 5830465
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
APPLICANT: Bierhuizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,065
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906

FILED DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1807 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 255..1454
US-08-474-065-13

Query Match 13.6%; Score 185.2; DB 2; Length 1807;
Best Local Similarity 52.1%; Pred. No. 6.4e-41;
Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;
327 TTGTGACATTTATCAGACTTAAGAGGTTATGCTCAAAAGCTTCTCTCAAGAGGAGAA 386
467 TTGCAAGGAATACTTGACCCAGGCACTACATCAGACCCCTTTATCTAAGGAAGAAC 526
387 AGCTTCCCAATAGCTTATCTTTGGTTGTCACAAAGATCAATTTATGTTGAAGGCT 446
527 TGACTTTCCTTGGCATATATATGTCATCATCATCTTTGACACCTTTGCAAGGCT 586
447 TATCCATGCTATATACACACACAAATATTACTGTCATCAATTTATGATGTAAGGCACC 506
587 CTTGAGGCTATTTACATGCCCCCAATATCTACTGTGTTCTCATGTGATGAAGAACAAC 646
507 TGATACCTTCAAGTTGCCATGAACAATTTAGTACGTAGTGTCTTCCATATTTTCATG 566
647 AACTGAATTTAAGATGCGGTAGACCAATTAAGTGTCTTCCCAACGCTTTTCTGGC 706
567 TTCCCAATTTAGAGGCTGTGGAATATGCCACATTTCCAGATCCAGGCTGATTTAAATG 626
707 TTCCAGATGGAACCGGTGTCTATGAGGAGATCTCCAGGCTCCAGGCTGACCTGACTG 766
627 CTTGTCCGACCTTGAAGCTTTCAATCAATGAGTGAATATGTTATCACTTGTGAGGCA 686
767 CATCAGAGATCTTTCTGCTTCGAGTCTCATGGAAGTACGTTATCAACACCTGTGGCA 826
687 AGATTTCCCTGCAAGTCAATTTGAATTTGTTGTCAGAGTTGAAACCAATCAATGGAGC 746
827 AGACTTCCCTGGAACCAACCAAGGAATAGTTGAGTATCTGAAGGATTTAAGGTAA 886
747 AAATATGTTGGAGACGGTGAACCCCAACAGTAAATTTGGAAGATTCACCTTACCATCA 806
887 AAATATCACCACCGGGGTGTGCCCCCAGCTCATGCAATTTGGACGACTAAATATGTCCA 946
807 TGAACCTAGAGGCTGCTTATGAATATGTAAGTACCAATAGGACGAACATCTCAA 866
947 CCAAGAGCACCTGGCA-----AAGAGCTTTCCTATGTGTAAGAACACAGGCTGAA 1000
867 GGAAGACACCCCAATAACATTCAGATATTTGTTGGCAGTGTCTTTTGTGTTAAGTCA 926
1001 ACCGCTTCCCCCAATATCTCAATTTTACCTTGGCTCTGCTATGTGGCTCTATCAAG 1060
927 AGATTTGTTAAATATATTTTCAACATCTCATGTTCAAGACTTTTGTGCTGCTCTAA 986
1061 AGAGTTTGCAACTTTGTTCTGATGACCCACGGGCTGTGATTTGCTCCAGTGTCCAA 1120
987 AGACACATCTCTCTGATGACACTTTTGGGCTACCTTGAATCGGGTTCCAGGAATACC 1046
1121 GGACACTTTGAGTCTGATGAGGATTTCTGGGTGACACTCAATAGATTCAGGTGTTC 1180
1047 TGGGAGATTTCCAGATCAACCCAGGATGTGTGATCTGCAAGTAAAGATCGGCTTGT 1106

Db 1181 TGGCTCTATGCCAAATGCACTCTGGACTG-----GAACTCAGAGCTAT 1225
Qy 1107 CAAGTGAATTAATGAAAGGCTTTTCTATCCAGTTGTACTGATCTCAGCTTGAAG 1166
Db 1226 AAGTGGAGTGACATGGAAGACAGACACGAGGC---TGCCACGGCCACTATGTACATGG 1282
Qy 1167 CGTGTGATTTATGGAGCTGCAGAAATTAAGGTGGCTTTATCAAGATGACATTTGGTTTC 1226
Db 1283 TATTTGATCTATGGAACCGAGACTTAAGTGGCTGTTAATTCACCAAGCCTGTTTGC 1342
Qy 1227 TAATAAATTTGATTTAAGGTGACCTATCTTGATTAATGCTTGGCAGAAAGCTTGA 1286
Db 1343 TACAAGTTTGAGCTTAATACCTACCCCTTACTGTGGAATGCTAGAACTGAGGCATCG 1402
Qy 1287 AGAA 1290
Db 1403 CGAA 1406

RESULT 6
US-07-955-041-3
Sequence 3, Application US/07955041
Patent No. 5360733
GENERAL INFORMATION:
APPLICANT: FUKUDA, MINORU
APPLICANT: BIERHUIZEN, MARTI PA
TITLE OF INVENTION: A NOVEL BETAL-6
TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
TITLE OF INVENTION: ENZYMATIC ACTIVITY
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESS: CAMPBELL AND FLORES
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/955,041
FILING DATE: 19921001
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHRYN
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9294
TELEPHONE: 619-535-9001
TELEFAX: 619-535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2105 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 220..1504
FEATURE:
NAME/KEY: polyA signal
LOCATION: 1913..1918
FEATURE:
NAME/KEY: misc signal
LOCATION: 248..314
OTHER INFORMATION: /standard name=
OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"

US-07-955-041-3

Query Match 12.6%; Score 172; DB 1; Length 2105;
Best Local Similarity 51.7%; Pred. No. 2.6e-37;
Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;
300 TGATGATGTTGGCAATGACCAAGTATGTCAGATTTATCAGACTCTTAAGAGGTTATGC 359
Db |
489 TGACGACTATATAACATGACCGAGTACTGTCTCTTTCATCAGAGAGCGCAATATAT 548
Qy |
360 TCAAAAGCTGTCTCAAGAGGAGAGAAAGCTTCCCAATAGCTTATTTTGGTTGTCCA 419
Db |
549 TGTAGAACCCTTAGTAAAGAGAGCGGAGTTTCCCAATAGCATATTTATAGTGGTTCA 608
Qy |
420 CAAAGATGCAATTTGTTGAAAGCTTATCCATGCTATATACAGCAGCATATTTA 479
Db |
609 TCACAGATGAAATCTTGACAGGCTGCTAGGCGCACTATATGCTCAGAAATTTCTA 668
Qy |
480 CTGCATCCATTTATGATGTAAGGCACTGATACCTTCAAAAGTTCGCAATTTTATGC 539
Db |
669 TTGGTTTCATGTGACACAAATCCGAGGATTCCTATTAGCTGAGTGGCGCATCGC 728
Qy |
540 TAAGTGTCTTCAATATTTTCAATGCTTCCAAATAGAGGCTGGAATATGCCCAT 599
Db |
729 TTCTGTTTATGTAATGTTTGTGCGCAGCGATGAGGATCTCTATGCAATGAGTGC 788
Qy |
600 TTCCAGACTCCAGGCTGATTTAAATGCTTGTGCGACCTTCTGAGTCTTCAATCCAGTG 659
Db |
789 GAGCGGTTTCAGCTGACTCACTCACTGATGAGGATCTCTATGCAATGAGTGC 848
Qy |
660 GAAATATGTTATCACTTGTGCGGCAAGATTTTCCCTGAAGTCAATTTTGAATGGT 719
Db |
849 GAAATGTTGATAAATCTTTGTGTTGATGATTTTCCCATTAACCAACCTTAGAAATGT 908
Qy |
720 GTCCAGAGTTCAAAACTCAATGAGCAATATGTTGAGAGCGGTGAACCCCAACAG 779
Db |
909 CAGGAGCTCAAGTTGTTAATGGAGAAACAACTGGAACGGAGAGATGCCATCCA 968
Qy |
780 TAAATGGAAGATTCATCTACATCATGAACTTAGACGGTGCCTTATGATATGTGAA 839
Db |
969 TAAAGAGAAAGGTGGAAGAGCGGTATGA-----GTCGTAAATGGAAGCTGAC 1019
Qy |
840 GTACCAATAGGACAAACATCTCCAAAGAGAGCAACCCCACTCAATCAAGATTTGT 899
Db |
1020 -----AAACACAGGAGTCTCAATGCTTCTCCACTCGAAACACCTCTCTTTTC 1070
Qy |
900 TGGCAGTCTTATTTGTTTATGCAAGATTTGTTAAATATATTTTCAACATCCAT 959
Db |
1071 TGGCAGTCTTATTTGTTTATGCAAGATTTGTTAAATATATTTTCAACATCCAT 1130
Qy |
960 CGTTCAAGACTTTTTCCTGCTTAAAGACATATCTCTGATGAGCACTTTTGGGC 1019
Db |
1131 AATCCAAAGTTGATGAGTGGGCAACAGACATACAGCCCTGATGATCTCTGGGC 1190
Qy |
1020 TACCTGATTCGGGTTCCAGGAATACCTGGGAGAT---TTCCAGATCAGCCAGATGT 1076
Db |
1191 CACCATCAAAAGGATTCCTGAAGTCCCGGCTCACTCCCTGCGCAGCATAGTATCT 1250
Qy |
1077 GTCTGATCTCGAGTAAAGTCTGCTTCAAGTGAATTTACTATGAGGCTTTT--- 1133
Db |
1251 ATCTGATGCAAGCAGTCTCCAGGTTTGTCAAGTGGCAGTACTTTGAGGGGTGATTTTC 1310
Qy |
1134 -----CTATCCCAAGTTGTTACTGATCTCACTTCCAGCGGTGTGATTTATGG 1181
Db |
1311 CAAGGTTGCTCCCTTACCGGCTTCCGATGAGTCCATGTCGCTCAGTGTGATTTTCG 1370
Qy |
1182 AGCTGCAAGATTAAGTGGCTTATCAAGATGACATTTGTTGCTTATTAATTTGATTC 1241
Db |
1371 AGCTGGTGAATGAACTGATGCTGGGCAACACCACTTGTGTGCAATAGTTTGAAGT 1430
Qy |
1242 TAAGTGGACCTATCTTGAATTAATGCTTGGCAGA 1277
Db |
1431 GGAATGTTGACCTCTTTCCTCCATCCAGTGTGATGA 1466

RESULT 7
US-08-227-455-3
; Sequence 3, Application US/08227455
; Patent No. 5624832
; GENERAL INFORMATION:
; APPLICANT: FUKUDA, MINORU
; TITLE OF INVENTION: A NOVEL BETAL-6
; TITLE OF INVENTION: N-ACTYLGUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
; TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
; TITLE OF INVENTION: ENZYMMATIC ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/227,455
; FILING DATE: 14-APR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, CATHRYN
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9957
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-535-9001
; TELEFAX: 619-535-8949
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2105 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 220..1504
; FEATURE:
; NAME/KEY: polyA_signal
; LOCATION: 1913..1918
; FEATURE:
; NAME/KEY: misc signal
; LOCATION: 248..314
; OTHER INFORMATION: /standard names
; OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"
; US-08-227-455-3

Query Match 12.6%; Score 172; DB 1; Length 2105;
Best Local Similarity 51.7%; Pred. No. 2.6e-37;
Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;
Qy 300 TGATGATGTTGGCAATGACCAAGTATGTCAGATTTATCAGACTCTTAAGAGGTTATGC 359
Db 489 TGACGACTATATAACATGACCGAGTACTGTCTCTTTCATCAGAGAGCGCAATATAT 548
Qy 360 TCAAAAGCTGTCTCAAGAGGAGAGAAAGCTTCCCAATAGCTTATTTTGGTTGTCCA 419
Db 549 TGTAGAACCCTTAGTAAAGAGAGCGGAGTTTCCCAATAGCATATTTATAGTGGTTCA 608
Qy 420 CAAAGATGCAATTTGTTGAAAGCTTATCCATGCTATATACAGCAGCATATTTA 479
Db 609 TCACAGATTTGAATGCTTTCAGGCTCTGAGGCGCATCTATATGCTCAGAAATTTCTA 668

QY 480 CTGATCCATTATGATGTAAGGACCTGATACCTTCAAAAGTTGCCATGACAAATTTAGC 539
Db 669 TTGCGTTTATGAGACAAATCCGAGGATTCCTATTAGCTGCGATGATGGCATCCG 728
QY 540 TAAAGTCTTCCCAATATTTTCAATGCTTCCAAATAGAGGCTGTGGAATATGCCACAT 599
Db 729 TTCCGTGTTTATGATGCTTTTGTGGCCAGCGATTTGAGAGTGTGTTTATGATCGTG 788
QY 600 TTCCAGATCCAGGCTGATTAATATGCTTTGTGCGACCTTCTGAGTCTTCAATCCAGTG 659
Db 789 GAGCGGGTTCAGGCTGACCTCAATGCTGATGAAGGATCTCTATGCAATGAGTCCAAACTG 848
QY 660 GAAATATGTTTCACTTGTGGGCAAGATTTTCCCTGAGTCAAAATTTTGAATTTGT 719
Db 849 GAGTCTTGTATTAATCTTTGTTGATGATTTTCCATTAACCACTGATGAATTTGT 908
QY 720 GTGAGTGTGAAAATCAATGAGGCAATATGTTGGAGCGGTGAAACCCCAACAG 779
Db 909 CAGGAAGCTCAAGTTGTTTAAATGGGAGAAACAACCTGGAACGAGAGGATGCATCCCA 968
QY 780 TAAATGGAAGATTCATACCATGATGACTTATGAGCGGTGCTTATGAATATGAA 839
Db 969 TAAAGAGAAGGTGGAAGAGCGGTATGA -----GTCGTTATGGAAGCTGAC 1019
QY 840 GCTACCAATAAGGACAAACATCTCCAAGGAAGCACCCCCCATAAACATTCAGATTTGT 899
Db 1020 -----AAACACAGGAGCTGTCAAAATGCTTCTTCCACTGAAACACCTCTCTTTTC 1070
QY 900 TGGCAGTCTTATTTTGTGTTTAAAGTCAAGCATTTTGTAAATATATTTTCAACACTCCAT 959
Db 1071 TGGCAGTCTTACTTCTGTTGCTGAGGAGTATGTTGGGTATGACTACAGAAATGAAA 1130
QY 960 CTTTCAAGACTTTTTTGGCTGCTCTTAAAGACACATCTCTCTGATGAGCACATTTTGGGC 1019
Db 1131 ATCCAAAGTTGATGGAGTGGGCACACACATACAGCCCTGATGATCTCTGGGC 1190
QY 1020 TACCTTGATGGGTTTCAGAAATACCTGGGAGAT ---TTCCAGATCAGCCAGATGT 1076
Db 1191 CACCATCCAAAGGATTCCTGAAGTCCCGGCTCACTCCCTGCCAGCATAAGTATGATCT 1250
QY 1077 GTCTGATCTGACAGATAAGACTCGCTTGTCAAGTGAATTAATCTATGAGGCTTTT --- 1133
Db 1251 ATCTGACATGCAAGCAGTGTCCAGTTGTCAAGTGGCAGTACTTTGAGGATGATTTTC 1310
QY 1134 -----CTATCCAGTTGATGATGATCTCACTTCCGAGCGTGTATTTATGG 1181
Db 1311 CAAGGCTGCTCCCTACCGGCTGCGATGAGTCCATGTCGCTCAGTGTGCAATTTCCG 1370
QY 1182 AGTGCAGAAATTAAGTGGCTTATCAAGATGAGCATTTGTTGCTTAATAATTTGATTC 1241
Db 1371 AGCTGTGACTTGAATGATGCTGCGCAACACACATTTGTTTCCATTAAGTTGACGT 1430
QY 1242 TAAAGTGGACCTATCTTGAATTAATGCTTGGCAGA 1277
Db 1431 GGATGTTGACTCTTTGCCATCCAGTGTGGATGA 1466

RESULT 8

US-08-472-482-3
; Sequence 3, Application US/08472482
; Patent No. 5658778
; GENERAL INFORMATION:
; APPLICANT: FUKUDA, MINORU
; APPLICANT: BIERHUIZEN, MARTI PA
; TITLE OF INVENTION: A NOVEL BTAL-6
; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
; TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
; TITLE OF INVENTION: ENZYMIC ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO

STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/472,482
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/955,041
FILING DATE: 01-OCT-1992
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHERIN
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9294
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-535-9001
TELEFAX: 619-535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2105 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 220..1504
FEATURE:
NAME/KEY: polyA signal
LOCATION: 1913..1918
FEATURE:
NAME/KEY: misc signal
LOCATION: 248..314
OTHER INFORMATION: /standard_name=
OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"
US-08-472-482-3

Query Match 12.6%; Score 172; DB 1; Length 2105;
Best Local Similarity 51.7%; Pred. No. 2.6e-37;
Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;
QY 300 TGATGATGTTGTGGCAATGACCAAGTGAATGTGATGATTAATGATGATCTTAAGAGTTATGC 359
Db 489 TGAGGACTATATAAATGATGACCAAGTGAATGATGATCTTCTTCTTCTCATCAAGAGACGCAAAATATAT 548
QY 360 TCAAAAGCTTGTCTCAAGAGGAGGAGAAAGCTTCCCAATAGCCTATTTCTTGTGTGCTCA 419
Db 549 TGTAGAACCCTTAGTAAAGAGAGGAGGAGTTTCCAAATAGCATATTTCTATAGTGTGTTCA 608
QY 420 CAAAGATGCAATTAATGTTGAAAGGCTTATCCATGATATATACCAACGACACAAATTTTA 479
Db 609 TCACAAGATTGAAATGCTTGAAGGCTGCTGAGGCGCACTATATATGCTTCAAGATTTCTA 668
QY 480 CTGATCCATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 539
Db 669 TTGCGTTTCAATGAGACACAAATCCGAGGATTTCTATTTAGTGTGATGATGATGATGATGATG 728
QY 540 TAAAGTCTTCTCCAAATATTTTCAATGCTTCCAAATTAGAGGCTGTGGAATATGCCACAT 599
Db 729 TTCTGTTTGTAGTAATGCTTTTGTGGCCAGCCGATTTGGAGAGTGTGTTTATGCAATCGTG 788
QY 600 TTCCAGACTCCAGCTGATTAATTAATGCTTGTGCGACCTTCTGAAGTCTTCAATCCAGTG 659
Db 789 GAGCGGGTTCAGGCTGACCTCACTGATGAAGGATCTCTATGCAATGAGTGCACAACTG 848
QY 660 GAAATATGTTTATCAACTTGTGTGGGCAAGATTTTCCCTGAGTCAAAATTTTGAATTTGT 719
Db 849 GAGTACTTGTATAATCTTTGTTGATGATTTTCCATTTAAACCAACCTAGAAATTTGT 908

QY 720 GTCAGAGTTGAAAAAATCAATGGAGCAAAATATGTTGGAGAGCGTGAACCCCAACAG 779
Db 909 CAGGAGCTCAAGTTGTTAAATGGGAGAAAACAACCTGGAAACGGAGAGGATGCCATCCCA 968
QY 780 TAAATGGAAAGATTCACCTACCATCATGAACTTAGACGGTGCCTTATGAATATGTGA 839
Db 969 TAAAGAGAAAGGTGGAAGAGCGGTATGA-----GGTCCTTAATGGAAGCTGAC 1019
QY 840 GCTACCAATAAGGACAAACATCTCAAGAGAGCAGCCCCCATCAACATTCAGATATTTGT 899
Db 1020 -----AAACACAGGAGCTGTCAAAATGCTCTCCACTCGAAACACCTCTCTTTTC 1070
QY 900 TGCCAGTGTCTTATTTGTTTAAAGTCAAGCAATTTGTTAAATATATTTTCAACACTCCAT 959
Db 1071 TGCCAGTGTCTTATTTGTTTAAAGTCAAGCAATTTGTTAAATATATTTTCAACACTCCAT 1130
QY 960 CGTCAAGACTTTTTCCTGCTCTTAAGACACATCTCTCTGATGAGCACTTTTGGGC 1019
Db 1131 AATCCAAAAGTTGATGGAGTGGGCAACAGACATACAGCCCTGATGAGTATCTCTGGGC 1190
QY 1020 TACCTTGATTCGGTTCCAGGATACCTGGGAGAT---TTCCAGATCAGCCAGGATGT 1076
Db 1191 CACATCCAAAGATTCCTGAAGTCCGGGCTCACTCCCTGCCAGCCATAGATATGATCT 1250
QY 1077 GTCGATCTGACAGTGAAGTCTGCTCAAGTGAATTAATGAGAGCTTTT--- 1133
Db 1251 ATCTGATGCAAGAGCTTCCAGGTTTCCAGGTTTGTCAAGTGGCAGTACTTTGAGGCTGATGTTT 1310
QY 1134 -----CTATCCAGTTGTAAGTCTCACTTCCAGTGGGCTCACTTCCAGTGGGCTGATGTTT 1181
Db 1311 CAAGGTTGCTCCCTACCCGCTGCGATGGATCTCATGTGGCTCAGTGGCTGATGTTTGG 1370
QY 1182 AGCTGAGAAATTAAGTGGCTTATCAAGATGAGCAATTTGTTGCTAATAAATTTGATTC 1241
Db 1371 AGCTGAGTCTCACTGAGTGGCTGGCAACACCACTTGTGGCAATAAGTTTGACGT 1430
QY 1242 TAAGTGGACCTATCTTGAATTAATGCTTGGCAG 1277
Db 1431 GGATGTTGACCTCTTTGCCATCCAGTGTGTTGATGA 1466

RESULT 9
US-08-487-069-3
; Sequence 3, Application US/08487069
; Patent No. 5684134
; GENERAL INFORMATION:
; APPLICANT: FUKUDA, MINORU
; APPLICANT: BIERHUIZEN, MARTI FA
; TITLE OF INVENTION: A NOVEL BETAL-6
; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
; TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
; TITLE OF INVENTION: ENZYMACTIC ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,069
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/955,041
; FILING DATE: 01-OCT-1992

ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHRYN
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9294
TELEPHONE: 619-535-9001
TELEFAX: 619-535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2105 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 220..1504
FEATURE:
NAME/KEY: polyA_signal
LOCATION: 1913..1918
FEATURE:
NAME/KEY: misc_signal
LOCATION: 248..314
OTHER INFORMATION: /standard name=
OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"

Query Match 12.6%; Score 172; DB 1; Length 2105;
Best Local Similarity 51.7%; Pred. No. 2.6e-37;
Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;
QY 300 TGATGATCTTGCCAAATGACAGTGAATTTGACATTTATCAGATCTTAAGAGGTTATGC 359
Db 489 TACGACTATATAACATGACAGTGAATTTCTTTTTCATCAAGAGCGCAATATAT 548
QY 360 TCAAAAGCTTCTCAAAGGAGGAGAAAGCTTCCCAATAGCCTATTTCTTGGTTGCCA 419
Db 549 TGTAGAACCCCTTAGTAAAGAGAGGCGGAGTTTCCCAATAGCATATTTCTATAGTGGTTCA 608
QY 420 CAAGATGCAATATGTTGAAGGCTTATCCATGCTATATACACAGCACAAATATTA 479
Db 609 TCAGAGATGAATGCTTGACAGGCTGCTGAGGCGCATATATGCTCAGATTTCTA 668
QY 480 CTGCATCCATTTATGATCGTAAGGCACCTGATACCTTCAAAGTTGCCATGAACAATTTAGC 539
Db 669 TTGCGTTTCATGTTGGACACAAATCCGAGGATTCCTATTTAGTGCAGTATGGCATCGC 728
QY 540 TAAAGTCTTCCATATTTTTCATTTCCAAATAGAGGCTGTGGAATATGCCACAT 599
Db 729 TTCTCTGTTTATGATGTTTGTGGCCAGCGGATTTGAGAGTGTGTTTATGATCGTG 788
QY 600 TTCCAGACTCCAGGCTGATTTAAATTTGCTTGTGGACCTTCTGAAGTCTTCAATCCAGTG 659
Db 789 GAGCCGGTTTCAGGCTGACCTCAATGCAATGAAGATCTCTATGCAATGAGTGCACACTG 848
QY 660 GAATATGTTATCACTTGTGGCGAGATTTTCCCTGAGTCAATTTTGAATTTGT 719
Db 849 GAAGTACTTGATTAATCTTTGTGGTATGATTTTCCCATTAACCAACCTAGAAATGT 908
QY 720 GTCAGAGTTGAAAAAATCAATGGAGCAAAATATGTTGGAGAGCGTGAACCCCAACAG 779
Db 909 CAGGAGCTCAAGTTGTTAAATGGGAGAAAACAACCTGGAAACGGAGAGGATGCCATCCCA 968
QY 780 TAAATGGAAAGATTCACCTTACCATCATGAACTTAGACGGTGCCTTATGAATATGTGA 839
Db 969 TAAAGAGAAAGGTGGAAGAGCGGTATGA-----GGTCCTTAATGGAAGCTGAC 1019
QY 840 GCTACCAATAAGGACAAACATCTCAAGAGAGCAGCCCCCATCAACATTTAGATTTGT 899
Db 1020 -----AAACACAGGAGCTGTCAAAATGCTCTCCACTCGAAACACCTCTCTTTTC 1070
QY 900 TGCCAGTGTCTTATTTGTTTAAAGTCAAGCAATTTGTTAAATATATTTTCAACACTCCAT 959

Db 1071 TGGCAGTGCCTACTTCGTGGTCACTAGGAGATATGTGGGGTATCTACTACAGAAATGAAA 1130
Qy 960 CGTTCAAGACTTTTTTGGCTGTCTTAAAGACACATACCTCTCTGATGAGCAGCTTTTGGGC 1019
Db 1131 AATCCAAAGTTGATGGAGTGGGACAAAGACACATACAGCCCTGATGATCTCTGGGC 1190
Qy 1020 TACCTTGATTCGGTTCCAGGATACCTGGGAGAT---TTCCAGATCAGCCAGGATGT 1076
Db 1191 CACCATCCAAAGGATTCCTGAAGTCCCGGGCTCACTCCCTCCAGCCATAGATATGATCT 1250
Qy 1077 GTCTGATCTGAGATGATGAGTCTGCTCAAGTGGAAATTAATCTATGAAAGCTTTTT--- 1133
Db 1251 AACTGACATGCAAGCAGTTGCCAGGTTTGTCAAGTGGCAGTACTTTGAGGGTGAATGTTT 1310
Qy 1134 -----CTATCCAGTTGACTGAGTCTCACCTTCGAAGCGTGTGTAATGAG 1181
Db 1311 CAAGGTGCTCCCTACCCGCCCTGGGATGGATCCATGTCGCTCAGTGTGCAATTTTCGG 1370
Qy 1182 AGCTGCAGAAATTAAGTGGCTTATCAAGATGACATTTGTTGCTAATAAATTTGATTC 1241
Db 1371 AGCTGTGACTGAACTGATGATGCTGGGCAACACCACTTGTGGCAATAGTTGAGCT 1430
Qy 1242 TAAGTGGACCCCTAATCTTGATTAATGCTTGGCAGA 1277
Db 1431 GGATGTTGACCTCTTGGCCATCCAGTGTGTTGATGA 1466

RESULT 10
US-09-063-237-3
; Sequence 3, Application US/09063237
; Patent No. 6124267
GENERAL INFORMATION:
APPLICANT: McEwer, Rodger P.
APPLICANT: Cummings, Richard D.
TITLE OF INVENTION: O-Glycan Inhibitors of Selectin Mediated
; TITLE OF INVENTION: Inflammation Derived from PSGL-1
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESS: Patrea L. Pabst
STREET: 2800 One Atlantic Center, 1201 West Peachtree
CITY: Atlanta
STATE: Georgia
COUNTRY: US
ZIP: 30306-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patencia Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE:
APPLICATION NUMBER: US/09/063,237
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/649,802
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: OMR110CIP7
TELEPHONE: (404)873-8794
TELEPHONE: (404)873-8794
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2102 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA

Query Match 11.8%; Score 160.8; DB 3; Length 2102;
Best Local Similarity 51.0%; Pred. No. 3e-34;
Matches 508; Conservative 0; Mismatches 452; Indels 36; Gaps 4;
Qy 300 TGATGATGTTGTGGCAATGACCAATGATGTGATGATTTATCAGACTCTTAAGAGTTATGC 359
Db 488 TGACGACTATATAAATGATGACCAATGATGATGATGATGATGATGATGATGATGATGAT 547
Qy 360 TCAAAGCTTGTCTCAAAGGAGGAGAAAGCTTCCCAATAGCCTATCTTTGGTGTGTTCA 419
Db 548 TGTGAAGCCCTTAGTAAAGAGAGGGGAGGATTTCCAAATAGCATATTTCTATAGTGTTC 607
Qy 420 CAAAGATGCAATATGTTTGAAGGCTTATCCATGCTATATAACAACAGCACAATATTA 479
Db 608 TCACAGATTAATGATGCTTGCAGAGCTGCTGAGGGCATCTATATGCTCAGAAATTTCTA 667
Qy 480 CTGATCATATGATGCTTAAGGACCTGATGATCTTCAAAGTTGCCATGAACAATTTAGC 539
Db 668 TTGGCTTCATGTGACACAAAATCCGAGGATTCCTATTTAGCTGCGAGTATGGGCAATGC 727
Qy 540 TAAGTGTCTTCCCAATATTTTTCATTTGCTTCCAAATTAGAGGCTGTGGAATATGCCACAT 599
Db 728 TTCTGTTTTAGTAAATGCTTTTGGCCAGCCGATTTGGAGAGTGTGTTTATGCATCGTG 787
Qy 600 TTCAGACTCCAGGCTGATTTAAATGCTTGTGGACCTTCTGAAGTCTTCAATCCAGTG 659
Db 788 GAGCCGGGTTCCAGGCTGACCTCAACTGCATGAAGGATCTCTATGCAATGAGTGCAAACTG 847
Qy 660 GAATATGTTATCAACTTGTGGGCAAGATTTTCCCTCGAAGTCAAAATTTTGAATTTGT 719
Db 848 GAAATGTTGATTAATCTTTGTTGATGATGATTTTCCATTTAAACCAACCTAGAAATGT 907
Qy 720 GTGAGTTGAAAACCTCAATGAGCAATATGTTGGAGACGGTGAACCCCAACAG 779
Db 908 CAGCAAGCTCAAGTTGTTAATGGGAGAAACACACTGGAAACGGAGAGATGTCATCCCA 967
Qy 780 TAAATGGAAAGATTCACCTTACCATCATGAACCTTAGACGGTGTCTTATCAATATGTAA 839
Db 968 TAAAGAAACAAAGTTGGAAGAGCCCTAAGA-----GGTGTAAATCGAAGCTG-- 1016
Qy 840 GCTACCAATAAGGACAAACATCTCAAGGAGAGACCCCAATGAGAGAGAGAGAGAGAG 899
Db 1017 -----ACAAACACAGGAGCTGTCAAAATGCTTCTCCCTCCACTCGAAACACCTCTCTTTTC 1069
Qy 900 TGGCAGTCTTATTTTGTGTTTAAAGTCAAGCATTTGTTTAAATATATTTTCAACCACTCCAT 959
Db 1070 TGGCAGTGCCTACTTCGTGCTCAGTAGGACTATGTTGGGATGATGATGATGATGATGAT 1129
Qy 960 CGTTCAAGACTTTTTTGGCTGTCTTAAAGACACATCTCTCTGATGAGCAGCTTTTGGGC 1019
Db 1130 AATCCAAAGTTGATGGAGTGGGACAAAGACACATACAGCCCTGATGATATCTCTCGGC 1189
Qy 1020 TACCTTGATTCGGTTCCAGGAATACCTGGGAGAT---TTCCAGATCAGCCAGGATGT 1076
Db 1190 CACCATCCAAAGGATTCCTGAAGTCCCGGCTCACTCCCTCCAGCCATAGATATGATCT 1249
Qy 1077 GTCTGATCTGAGAGTAAAGACTCGGCTTGTCAAGTGGAAATTAATCTATGAGGCTTTTT--- 1133
Db 1250 ATGTGACATGCAAGCAGTTGCCAGGTTTGTCAAGTGGCAGTACTTTTCAAGGCTGATGTTT 1309
Qy 1134 -----CTATCCAGTTGATCTGAGTCTCACCTTCGAAGCGTGTGTAATGAG 1181
Db 1310 CAAGGTGCTCCCTACCCGCCCTGGGATGGATCCATGTCGCTCAGTGTGCAATTTTCGG 1369
Qy 1182 AGCTGCAGAAATTAAGTGGCTTATCAAGATGAGCAATTTGTTGCTAATAAATTTGATTC 1241
Db 1370 AGCTGTGACTGAACTGATGATGCTGGCAGCAACACCACTTGTGGCAATAGTTGAGCT 1429
Qy 1242 TAAGTGGACCCCTAATCTTGATTAATGCTTGGCAGA 1277
Db 1430 GCATGTTGACCTCTTGGCCATCCAGTGTGTTGATGA 1465

RESULT 11

US-08-118-906-1
; Sequence 1, Application US/08118906
; Patent No. 5484590
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/118,906
; FILING DATE: 09-SEP-1993
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..378
US-08-118-906-1

Query Match 8.9%; Score 121.2; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;
QY 367 CTTGCTCAAGGAGGAGAAAGCTTCCCAATAGCCTATCTTTGGTTGTCACAAAGAT 426
DB 13 CCTTTATCTAAGGAGAGCTGACTTCCCTTGGCATATATAATGGTCATCATCATCAC 72
QY 427 GCAATATAGTTGAAGGCTTATCCATGCTATATACCAACGACCAATATTTACTGCAATC 486
DB 73 TTTCACACCTTTGCAAGGCTCTTCAGGCTATATATGCGGTATATAATGGTCATCATCAC 132
QY 487 CATATATAGTGAAGGACCTGATACCTTCAAGTTGCCATGACATTTAGCTAGTGC 546
DB 133 CATGTGGATGAAGAAAGCAACATGATTTAAAGATGCGGTAGAGCAACTATTAAGCTGC 192
QY 547 TTCTCCAATATTTTCATTTGCTTCCAAATAGAGGCTGTGGAATATGCCCAATTTCCAGA 606
DB 193 TTCCCAACGCTTTCTGGCTTCCAAAGTGAACCCGTTGTCTATGGAGGATCTCCAGG 252
QY 607 CTCAGGCTGATTAATTCGTTGCGACCTTCTGAATCTTCAATCCAGTGAATAT 666
DB 253 CTCAGGCTGACCTGATGATCAGAGATCTTTCTGCGCTTCAGGCTCTCATGGAAGTAC 312
QY 667 GTTATCAACTTTGTGGGCAAGATTTTCCCTCGAATCAAATTTTGAATGTGTGTCAGAG 726
DB 313 GTTATCAACCTGTGGGCAAGACTTCCCTCCCTGAAACCAACCAAGGAATAGTTCCAGTAT 372

QY 727 TTGAAA 732
DB 373 CTGAAA 378
RESULT 12
US-08-486-196-1
; Sequence 1, Application US/08486196
; Patent No. 5731420
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,196
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..378
US-08-486-196-1

Query Match 8.9%; Score 121.2; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;
QY 367 CTTGCTCAAGGAGGAGAAAGCTTCCCAATAGCCTATCTTTGGTTGTCACAAAGAT 426
DB 13 CCTTTATCTAAGGAGAGCTGACTTCCCTTGGCATATATAATGGTCATCATCATCAC 72
QY 427 GCAATATAGTTGAAGGCTTATCCATGCTATATACCAACGACCAATATTTACTGCAATC 486
DB 73 TTTCACACCTTTGCAAGGCTCTTCAGGCTATATATGCGGTATATAATGGTCATCATCAC 132
QY 487 CATATATAGTGAAGGACCTGATACCTTCAAGTTGCCATGACATTTAGCTAGTGC 546
DB 133 CATGTGGATGAAGAAAGCAACATGATTTAAAGATGCGGTAGAGCAACTATTAAGCTGC 192
QY 547 TTCTCCAATATTTTCATTTGCTTCCAAATAGAGGCTGTGGAATATGCCCAATTTCCAGA 606

Db 193 TTCCAAACGCTTTCTGCTCCAGATGGAACCGTTGTCTATGAGGGATCTCCAGG 252
QY 607 CTCGAGCTGATTTAAATGCTGTGGGACCTCTGGAAGTCTTCAATCCAGTGAATAT 666
Db 253 CTCGAGCTGACTGAACTGCAATCAGAGATCTTTCTGCTTCGAGGTCTCATGGAAGTAC 312
QY 667 GTTATCAACTGTGTGGGCAAGATTTCCCTGGAAGTCAAAATTTGAAATGCTGTCCAGG 726
Db 313 GTTATCAACACCTGTGGGCAAGCTTTCCCTGGAACCAACCAAGGAATAGTTCAATAT 372
QY 727 TTGAAA 732
Db 373 CTGAAA 378

RESULT 13
US-08-488-135-1
; Sequence 1, Application US/08488135
; Patent No. 5786910
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,135
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..378
US-08-488-135-1

Query Match 8.9%; Score 121.2; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;
QY 367 CTTGTCTCAAAGGAGGAGAAAAGCTTCCCAATGAGCTATCTTTGGTTGTCACAAAGAT 426
Db 13 CCTTTATCTAAGGAAGAGCTGACTTTCCTGGCATATATATGTTCTCATCATCAC 72
QY 427 GCAATATGGTTGAAGGCTTATCCATGCTATATACACACGACATATTTACTGTCATC 486

Db 73 TTGACACCTTTGCAAGCTCTTCAGGGCTATTTTACATGCCCCAAATATCTACTGTGT 132
QY 487 CATTATGATGCTAAGGACCTGATACCTTCAAAAGTTGCCATGAACAATTTAGCTAAGTGC 546
Db 133 CATGTGATGATGAAAAGCAACAACCTGAATTTAAAGATGCGGTAGAGCAACTATTAAAGCTGC 192
QY 547 TTCTCCATATTTTTCATGCTTCCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGA 606
Db 193 TTCCAAACGCTTTCTGCGCTTCCAAATGGAACCCGTTGCTTATGAGGGATCTCAGG 252
QY 607 CTCGAGCTGATTTAAATTTGCTTGTGCGACCTTCTGAAAGTCTTCAATCCAGTGAATAT 666
Db 253 CTCGAGCTGACCTGAACTGCAATCAGAGATCTTTCTGCTTCGAGGTCTCATGGAAGTAC 312
QY 667 GTTATCAACTGTGTGGGCAAGATTTCCCTGGAAGTCAAAATTTGAAATGCTGTCCAGG 726
Db 313 GTTATCAACACCTGTGGGCAAGCTTTCCCTGGAACCAACCAAGGAATAGTTCAATAT 372
QY 727 TTGAAA 732
Db 373 CTGAAA 378

RESULT 14
US-08-474-065-1
; Sequence 1, Application US/08474065
; Patent No. 5830465
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,065
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..378
US-08-474-065-1

Query Match 8.9%; Score 121.2; DB 2; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;
QY 367 CTTGTCTCAAGGAGGAGAGAAAGCTTCCCAATAGCTATTCTTTGGTTGTCACAAAGAT 426
DB 13 CTTTATCTAAGGAAGAAGCTGACTTCCCTTGGCATATATAATGGTCATCCATCATCAC 72
QY 427 GCATATATGTTGAAGGCTTATCCATGCTATATACACAGGACATATTTACTGCAATC 486
DB 73 TTGACACCTTTGCAAGGCTCTTTCAGGCTATTTACATGCCCAAAATATCTACTGTGTT 132
QY 487 CATTATGATCGTAAGGCAACCTGATACCTTCAAGTTGCTCAATGAACAATTTAGCTAAGTGC 546
DB 133 CATGTGATGAAGGAAGCAACACTGATTTAAAGATCGGTAGGCAACTATTAAAGCTGC 192
QY 547 TTCCTCAATATTTTCATTTGCTTCCAAATAGAGGCTGTGGAATATGCCACATTTCCAGA 606
DB 193 TTCCCAACAGCTTTTCTGGCTTCCAAAGTGAACCCGTTGTCTATGGAGGATCTCCAGG 252
QY 607 CTCGAGGCTGATTTAAATTTGCTTGGGACCTTCTGAAGTCTTCAATCCAGTGGAAATAT 666
DB 253 CTCGAGGCTGACTGACTGATGCTGATGATCTTTCTGCTTCGAGGTCTCATGGAAGTAC 312
QY 667 GTTATCAACTGTGTGGGCAAGATTTCCCTGAGTCAAAATTTTGAATTTGGTGTGAGAG 726
DB 313 GTTATCAACACCTGTGGGCAAGACTTCCCTGAGTCAAAACCAACAGGAAATAGTTCAGTAT 372
QY 727 TTGAAA 732
DB 373 CTGAAA 378

RESULT 15
US-08-118-906-3
Sequence 3, Application US/08118906
Patent No. 5484590
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
APPLICANT: Bierhuizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,906
FILING DATE: 09-SEP-1993
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear

MOLECULE TYPE: CDNA
FEATURES:
NAME/KEY: CDS
LOCATION: 1..378
US-08-118-906-3
Query Match 6.8%; Score 92.2; DB 1; Length 378;
Best Local Similarity 52.8%; Pred. No. 7.6e-16;
Matches 199; Conservative 0; Mismatches 178; Indels 0; Gaps 0;
QY 355 TATGCTCAAAAGCTTGTCTCAAGGAGGAGAAAGCTTCCCAATAGCCCTATTCTTTGGTT 414
DB 1 TATATTCTAGAACCCCTTAGTAAAGAGAGGCGGAGTTTCCCAATAGCATATTCTATAGTG 60
QY 415 GTCCACAAAGATGCAATTATGTTGAAAGGCTTATCCATGCTATATACAAACAGCACCAAT 474
DB 61 GTTCATCAAGAATTGAATGCTTGACAGGCTGCTGAGGGCCATCTATATGCTCAGAAAT 120
QY 475 ATTTACTGCATGCCATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 534
DB 121 TTCTATTGCGTTTCATGTTGAGACACAAAATCCGAGGATTCCTATTAGCTGCACTGATGGC 180
QY 535 TTAGCTAAGTGTCTTCCCAATATTTTCATTTGCTTCCAAATTTAGAGGCTGTGAAATATGCC 594
DB 181 ATCGCTTCTGTTTATGTAATGCTTTTGGCCAGCCGATTTGAGAGTGTGTTTATGCA 240
QY 595 CACATTTCCAGACTCCAGGCTGATTTAAATTTGCTTCCGACCTTCTGAACTTCTTCAATC 654
DB 241 TCGTGGAGCCGGTTCCAGGCTGACCTCACTGCATGAAGGATCTCTATGCAATGAGTGCA 300
QY 655 CAGTGGAAATATGTTATCAACTTGTGTTGGGCAAGATTTCCCTGAGTCAATTTTGA 714
DB 301 AACTGGAAGTACTTGATAAATCTTTGTTGATGATGATTTTCCCAATTAACCAACCTAGAA 360
QY 715 TTGGTGTGACAGATTGAA 731
DB 361 ATTGTCAGGAAGCTCAA 377

Search completed: February 1, 2004, 00:09:57
Job time : 98 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 31, 2004, 14:13:05 ; Search time 524 Seconds

(without alignments)
9473.065 Million cell updates/sec

Title: US-10-084-406-1

Perfect score: 1362

Sequence: 1 atgaagatttcaaatgtta.....atctcactaccacatcatga 1362

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2434939 seqs, 1822278265 residues

Total number of hits satisfying chosen parameters: 4869878

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq2:*
- 14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1362	100.0	1362	13	US-10-388-307-1
2	1362	100.0	1362	15	US-10-084-406-1
3	1362	100.0	3435	9	US-09-793-998-10
4	949	69.7	1368	9	US-09-793-998-7
5	312.6	23.0	717	9	US-09-793-998-1
6	191.8	14.1	1221	9	US-09-797-207-12
7	191.8	14.1	1317	9	US-09-797-207-1
8	191.8	14.1	1317	13	US-10-388-307-14
9	191.8	14.1	1317	15	US-10-084-406-14
10	191.8	14.1	2108	9	US-09-797-207-3
11	191.8	14.1	2147	10	US-09-981-353-43
12	191.8	14.1	2229	9	US-09-925-297-337
13	191.8	14.1	2236	15	US-10-106-698-1555
14	191.8	14.1	2319	9	US-09-874-390-1
15	185.2	13.6	1203	13	US-10-388-307-16

16	185.2	13.6	1203	15	US-10-084-406-16	Sequence 16, Appl
17	175.8	12.9	1314	9	US-09-797-207-19	Sequence 19, Appl
18	172	12.6	1287	13	US-10-388-307-12	Sequence 12, Appl
19	172	12.6	1287	15	US-10-084-406-12	Sequence 12, Appl
20	172	12.6	2110	10	US-09-962-832-123	Sequence 123, Appl
21	172	12.6	2110	10	US-09-954-456-737	Sequence 737, Appl
22	161.6	11.9	2109	9	US-09-797-207-13	Sequence 13, Appl
C 23	147	10.8	549	13	US-10-029-386-4453	Sequence 4453, Ap
C 24	138.6	10.2	361	13	US-10-029-386-18153	Sequence 18153, A
C 25	117.2	8.6	408	11	US-09-918-985-3027	Sequence 3027, Ap
C 26	108.4	8.0	527	13	US-10-029-386-2317	Sequence 2317, Ap
C 27	80.8	5.9	937	11	US-09-809-391-307	Sequence 307, Ap
28	80.8	5.9	937	13	US-09-882-171-307	Sequence 2321, Ap
29	71.2	5.2	2854	12	US-10-108-260A-2321	Sequence 1060, Ap
C 30	69	5.1	471	10	US-09-998-598-1060	Sequence 1060, A
C 31	64.4	4.7	173	13	US-10-029-386-16017	Sequence 16017, A
C 32	50.6	3.7	306	10	US-09-878-178-940	Sequence 940, Ap
C 33	50.6	3.7	306	10	US-09-878-178-2116	Sequence 2116, Ap
C 34	50.6	3.7	306	14	US-10-046-935-940	Sequence 2116, Ap
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C 36	50.6	3.7	306	15	US-10-146-502-940	Sequence 940, Ap
C 37	50.6	3.7	306	15	US-10-146-502-2116	Sequence 2116, Ap
C 38	50.6	3.7	306	15	US-10-060-036-1983	Sequence 1983, Ap
C 39	49.4	3.6	777	11	US-09-809-391-181	Sequence 181, Ap
C 40	49.4	3.6	777	13	US-09-882-171-181	Sequence 181, Ap
C 41	48.8	3.6	404	13	US-09-814-353-18915	Sequence 18915, A
C 42	48.2	3.5	285	13	US-09-814-353-21954	Sequence 21954, A
C 43	43	3.2	1944	9	US-09-815-243-9244	Sequence 9244, Ap
C 44	41.8	3.1	497	13	US-10-027-632-3021	Sequence 3021, Ap
C 45	41.8	3.1	497	14	US-10-027-632-3021	Sequence 3021, Ap

ALIGNMENTS

RESULT 1

US-10-388-307-1
; Sequence 1, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwiensek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GLCNAC
; TITLE OF INVENTION: to Galnac) beta1,6-N-Acetylglucosamineyltransferase, C3GNT3
; FILE REFERENCE: 4503/IG031
; CURRENT APPLICATION NUMBER: US/10/388,307
; PRIOR FILING DATE: 2003-03-13
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 1999-08-24
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1362
; TYPE: DNA
; ORGANISM: Human

US-10-388-307-1

Query Match	100.0%	Score	1362	DB	13	Length	1362
Best Local Similarity	100.0%	Pred. No.	0				
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Gaps	0						
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DB	1	ATGAAGATTTC	AAATCTTTT	AAACATACCTC	ACAGACAGAACTTTT	TCATCCCTTTT	60
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DB	61	TTAACCCCTATG	CGCTCTCTTTT	TTAAAGCTTCT	TAATATGTGAGACGACT	TTTCGCAA	120
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Qy 1141 AGTTGACTGAGATCTCACCTTCGAAGCGTGTATTTATGAGCTGCAGAAATTAAGTGG 1200
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Db 1321 GAAAAGTATTATGATAGAAATCTCCTACCTACCATCATGA 1362

RESULT 2

US-10-084-406-1
; Sequence 1, Application US/10084406
; Publication No. US20030054525A1
; GENERAL INFORMATION:
; APPLICANT: Schwiendek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GlcNAc
; TITLE OF INVENTION: to GalNAc) beta1,6-N-Acetylglucosaminyltransferase, C2GnT3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/084,406
; PRIOR FILING DATE: 2002-02-25
; PRIOR FILING DATE: 09/645,192
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1362
; TYPE: DNA
; ORGANISM: Human
US-10-084-406-1

Query Match 100.0%; Score 1362; DB 15; Length 1362;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1362; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 121 AAAGACATTTACTTGGTGTAGTACTCCCTAAGTACTCGCTTTGTAAGAAACAGATAC 180
Qy 181 ACTCATGTTAAGGATGAGTCAAGTATGAGTTAACTGTTCCGGTATCTATGACAGGAG 240
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RESULT 3

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US-09-793-998-10
; Sequence 10, Application US/09793998
; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: LEW, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3435
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-793-998-10
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Query Match 100.0%; Score 1362; DB 9; Length 3435;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1362; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 922 TTAACCTATGGCTGCTCTCTTTGTTAAAGCTTCTAAATGTGAGAGCACTCTTTCCGCAA 981
QY 121 AAAGACATTTTACTTGGTTGAGTACTCCCTAAAGTACCTCGCCTTTTGTAGAAACAGATAC 180
DB 982 AAAGACATTTTACTTGGTTGAGTACTCCCTAAAGTACCTCGCCTTTTGTAGAAACAGATAC 1041
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DB 1042 ACTCATGTTAAGGATGAGTCAAGTATGAGTTAACTGTTCGGGTATCTATGAAACAGGAG 1101
QY 241 CCTTTGAAATTTGAAAGAGCTCTGGAAATAAGAAAGAGGAGCATCATTCACATTGGAGGAT 300
DB 1102 CCTTTGAAATTTGAAAGAGCTCTGGAAATAAGAAAGAGGAGCATCATTCACATTGGAGGAT 1161
QY 301 GATGATCTTGTGGCAATGACCACTGATTTGACATTTATCAGACTCTAAGAGGTTATGCT 360
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QY 361 CAAAGCTTCTCTCAAGGAGGAGAAAGCTTCCCAATAGACCTATTTCTTTGTTGTCCAC 420
DB 1222 CAAAGCTTGTCTCAAGGAGGAGAAAGCTTCCCAATAGACCTATTTCTTTGTTGTCCAC 1281
QY 421 AAAGATCAATTTATGTTGAAAGGCTTATCCATGCTATATACAACAGCACAATATTTAC 480
DB 1282 AAAGATCAATTTATGTTGAAAGGCTTATCCATGCTATATACAACAGCACAATATTTAC 1341
QY 481 TGCATCAATTTATGATCGTAAGGACCTGATACCTTCAAAATTTGCCATGACCAATTTAGCT 540
DB 1342 TGCATCAATTTATGATCGTAAGGACCTGATACCTTCAAAATTTGCCATGACCAATTTAGCT 1401
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DB 1462 TCCAGACTCCAGGCTGATTTAAATTTGCTTGTGGACCTTCTGAGTCTTCAATCCAGTGG 1521
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DB 1522 AAATATGTTATCAACTTGTGTGGCAAGATTTTCCCTCGAAGTCAATTTTCAATTTGGTG 1581
QY 721 TCAGAGTTGAAAACACTCAATGAGCAAAATATGTTGAGACGGTGAACCCCAACAGT 780
DB 1582 TCAGAGTTGAAAACACTCAATGAGCAAAATATGTTGAGACGGTGAACCCCAACAGT 1641
QY 781 AAATTTGAAAAGATTCCATTTACCATCATGAACTTAGACGGGTGCCTTATGAATATGGAAG 840
DB 1642 AAATTTGAAAAGATTCCATTTACCATCATGAACTTAGACGGGTGCCTTATGAATATGGAAG 1701
QY 841 CTACCAATAGAGCAAAACATCTCCAGGAAGCACCCGCCCAATACATTCAGATATTTGTT 900
DB 1702 CTACCAATAGAGCAAAACATCTCCAGGAAGCACCCGCCCAATACATTCAGATATTTGTT 1761
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Db 1762 GGCAAGTCTTATTTGTTTAAAGTCAAGCAATTTGTTAAATATATTTTCAACAACCTCCATC 1821
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Qy 1021 ACCTTCATTCGGGTTCCAGGAATACCTGGGAGATTTCCAGATCAGCCAGGATGCTCT 1080
Db 1882 ACCTTCATTCGGGTTCCAGGAATACCTGGGAGATTTCCAGATCAGCCAGGATGCTCT 1941
Qy 1081 GATCTCAGAGTAAGACTCCGCTTGTCAAGTGGAAATTAATGATGAGGCTTTTCTATCCC 1140
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Qy 1141 AGTTGACTGGATCTCACCTTCGAGCGTGTGTATTTATGAGCTGCAGATTAAGTGG 1200
Db 2002 AGTTGACTGGATCTCACCTTCGAGCGTGTGTATTTATGAGCTGCAGATTAAGTGG 2061
Qy 1201 CTTATCAAGAATGGAATTTGGTTTCTAATAAATTTGATTTCTAAGGTGGACCCCTATCTTG 1260
Db 2062 CTTATCAAGAATGGAATTTGGTTTCTAATAAATTTGATTTCTAAGGTGGACCCCTATCTTG 2121
Qy 1261 ATTAAATGCTGCAGAAAAGCTTGAAGACAGAGAGAGATGGAATCACTTTGCCCTCA 1320
Db 2122 ATTAAATGCTGCAGAAAAGCTTGAAGACAGAGAGAGATGGAATCACTTTGCCCTCA 2181
Qy 1321 GAAAAGTTATTTATGATAGAAATCTCACTACCACATCATGA 1362
Db 2182 GAAAAGTTATTTATGATAGAAATCTCACTACCACATCATGA 2223

RESULT 4
US-09-793-998-7
; Sequence 7, Application US/09793998
; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: LEW, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; PRIOR FILING DATE: 2001-02-28
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1368
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-793-998-7

Query Match 69.7%; Score 949; DB 9; Length 1368;
Best Local Similarity 81.5%; Pred. No. 3.9e-261;
Matches 1112; Conservative 0; Mismatches 250; Indels 3; Gaps 1;
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Db 1 ATGAAGATATTCAGATGTTGCTTTAAATACACTCTCCAGACAGAAACTTTTCATCTCCTC 60
Qy 61 TTAACCTATGGTGTCTCTCTTTGTTAAAGCTTCTAAATGTG---AGACGACTCTTTTCCG 117
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Db 121 CAAAAGACATTTACTTGGTTAGTACTCCCTAAGTACATCACCATTGTGAGGAACAGG 180
Qy 178 TACACTCATGTTAAGGATGAAGTCAGGTATGAAGTTAACTGTTCCGGGTATCTATGAACAG 237
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Qy 298 GATGATGATGTTGGGCAATGACCCAGTGAATGTGACATTTATCAGACTCTTAAGAGGTAT 357
Db 301 GACGGTGAATGTCGTGGCGATGACAAAGTGAATGTGACGTTTATCAGACCTTAAGCAGTAC 360
Qy 358 GCTCAAAAGCTTGTCTCAAAAGGAGGAGAAAGCTTCCCAATAGCCTTATTTCTTGGTTGTC 417
Db 361 CATGAAAAGCTTGGTTTCAAGGGAGAGAGACTTCCCATAGCCTTATTCGTGGTGGTC 420
Qy 418 CACAAGATGCAATTAATGTTGAAAGGCTTATCATGCTATATACAAACAGACACAATAT 477
Db 421 CACAAGATGCAATTAATGTTGAGCGGTTGATCGAGCTATTTAGAACAGCACACCTT 480
Qy 478 TACTGATCCATTAATGATCGTAAGGCACCTGATACCTTCAAGTTGCCATGAACAATTTA 537
Db 481 TACTGATCCATTAATGATCGTAAGGCACCTGATACCTTCAAGTTGCCATGAACAACCTA 540
Qy 538 GCTAAGTGTCTTCCCAATATTTTCATTTGCTTCCAAATTAAGAGCTGTGGAATATGCCAC 597
Db 541 GCTAAGTGTCTTCCCAATATTTTCATTTGCTTCCAAATTAAGAGCTGTGGAATATGCCAC 600
Qy 598 ATTTCCAGACTCCAGGCTGATTTAAATTTGCTTGTGGAACCTTCTGAAGTCTTCAATCCAG 657
Db 601 ATATCCAGGCTCCAGGCGGATTTGAAGTCTTATCAGACCTCTCAAGTCTTCCGTTGAG 660
Qy 658 TGGAAATATGTTTCAACTTGTGTGGGCAAGATTTTCCCTGGAAGTCAAAATTTTGAATTTG 717
Db 661 TGGAAATATGTTTCAACTTGTGTGGGCAAGATTTTCCCTGGAAGTCAAAATTTTGAATTTA 720
Qy 718 GTGTGAGAGTTGAAAAAATCAATGAGGACAAATATGTTGGAGCGGTGAAACCCCAAC 777
Db 721 GTGACAGAGCTGAAAAGTCTCCAAAGGAAGATATGTTAGAGCGGTGAGACCCCCAGT 780
Qy 778 AGTAAATTTGAAAGATTCACCTTACCATCATGAACTTAGACGGGTGCTTATGATATG 837
Db 781 GCTAAGACGAGAGGTTTCACTTACCATCATGAGCTCAGACAGGTGCTTATGATATG 840
Qy 838 AAGCTTACCAATAAGGACAAACATCTCCAAGGAAGACACCCCCCATCAATTCAGATATTT 897
Db 841 AAGCTTACCAATAAGGACAAACATCTCCAAGGGGACACCCCTCATAACTTACAGTATTT 900
Qy 898 GTTGCAGTGTCTATTTTGTGTTTAAAGTCAAGCATTTGTTAAATATATTTTCAACACTCC 957
Db 901 GTGGGAGTGTCTATTTTGTGTTTAAAGTCAAGCATTTGTTAAATATATTTTCAACAGCTCC 960
Qy 958 ATCGTTCAAGACTTTTGTGCTGCTTAAAGACACATACCTCTCTGATGAGCACTTTTGG 1017
Db 961 CTCGTTGAAGACTTTTGTGCTTAAAGATACATATTTCTCTGACGAGCACTTTTGG 1020
Qy 1018 GCTACCTTGAATCGGTTTCAAGGAATACCTGGGAGATTTTCCAGATCAGCCAGGATG 1077
Db 1021 GCCACTTAAATCCGATACCAAGGAATACCCGGGGAATTTTCCAGTTTCTCTCAGGACGTG 1080
Qy 1078 TCTGATCTCAGAGTAAAGACTCGCTTGTCAAGTGAATTAATGAGGCTTTTCTAT 1137
Db 1081 TCTGATCTCAGAGTAAAGACTCGCTTGTCAAGTGAATTAATGAGGCTTTTCTAT 1140
Qy 1138 CCCAGTTGCTGAGATCTCACCTTTCGAAGCGTGTATTTATGAGCTGCAGAAATTAAG 1197
Db 1141 CCCAATTCGACTGTGCTCTCACCTTTCGAAGTGTGTATTTTACGAGCTGCAGAACTACGG 1200
Qy 1198 TGGCTTATCAAGATGGAATTTGTTGCTTAAATTAATTTTGAATTTTGAAGTGGACCTATC 1257
Db 1201 TGGCTTATCAAGATGGAATTTGTTGCTTAAATTAATTTTGAATTTTGAAGTGGACCTATC 1260
Qy 1258 TTGATTAATGCTTGGCAGAAAAGCTTGAAGACAGCAGAGAGACTGGAATCACTTTGCC 1317
Db 1261 TTGATGAATGCTGGCAGAAAAGCTTGAAGACAGCAGAGAGAGTGAATTTGCTTTGCTCT 1320
Qy 1318 TCAGAAAAGTTATTTATGATAGAAATCTCCTACACCACATCATGA 1362

Db

1321 TCAGAGAAGTTCATGACAGAGGGAAACCCGCCAAAGCCACACATTA 1365

RESULT 5

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US-09-793-998-1
; Sequence 1, Application US/09793998
; Patent No. US20020045202a1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: LEW, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 717
; TYPE: DNA
; ORGANISM: Unknown Sequence
; FEATURE:
; OTHER INFORMATION: Description of Unknown Sequence: DNA sequence of human or
; OTHER INFORMATION: mouse core 2c
; NAME/KEY: modified_base
; LOCATION: (177)
; OTHER INFORMATION: a, t, c, g, other or unknown
; NAME/KEY: modified_base
; LOCATION: (675)
; OTHER INFORMATION: a, t, c, g, other or unknown
; US-09-793-998-1

```

Query Match	23.0%;	Score	312.6;	DB	9;	Length	717;
Best Local Similarity	87.2%;	Pred. No.	8.7e-79;				
Matches	342;	Conservative	0;	Mismatches	50;	Indels	0;
Gaps	0;						

QY	892	ATATTGTTGGCAGTCTATTTTGGTTTAAAGTCAGACATTTGTTAAATATATATTTTCAAC	951
DB	1	ATATTGTTGGCAGTCTATTTTGGTTTAAAGTCAGACATTTGTTAAATATATATTTTCAAC	60
QY	952	AACTCCATCGTTCGAAGACTTTTTTGGCTGGTCTAAAGACACATATCTCTCGTAGTAGCAC	1011
DB	61	AACTCCATCGTTCGAAGACTTTTTTGGCTGGTCTAAAGACACATATCTCTCGTAGTAGCAC	120
QY	1012	TTTTGGGCTACCTTGATTTCGGGTTCCAGGAATACCTGGGAGATTTCCAGATCAGCCGAG	1071
DB	121	TTTTGGGCTACCTTGATTTCGGGTTCCAGGAATACCTGGGAGATTTCCAGATCAGCCGAG	180
QY	1072	GATGTGTCGTGATCTGCAGAGTAAGACTCGCCTTGTCAGTGGAAATTAATATGAAGGCTTT	1131
DB	181	GATGTGTCGTGATCTGCAGAGTAAGACTCGCCTTGTCAGTGGAAATTAATATGAAGGCTTT	240
QY	1132	TTCTATCCAGTTGTACTGGATCTCACCTTCGAGCGGTGTGTATTATTGGAGCTGCAGAA	1191
DB	241	TTCTATCCAGTTGTACTGGATCTCACCTTCGAGCGGTGTGTATTATTGGAGCTGCAGAA	300
QY	1192	TTAAGTGGCTTATCAAGAATGGAACATTTGGTTTGCTPAATAAAATTTGATTTCTTAAGGTGCAC	1251
DB	301	TTGANTTGGATGCTTCAGAGCCCATCAGTGTGGCCACCAAGCTTTGACGTAAACGTAGAT	360
QY	1252	CCATATCTGATTAATATGCTTTGGCAGAAAGCT	1283
DB	361	GAAATATGCTCTTCAGTGTCTAGCAGATATACCT	392

RESIST 6

RESULTS
US-09-797-207-12
; Sequence 12, Application US/09797207
; Patent No. US20020098563A1
GENERAL INFORMATION:

QY 977 CCTGGTCTAAAGACACATACTCTCTGATGAGCACTTTGGGTACCTTGATTGGGTTC 1036
||| |||||||| | |||||| ||| |||||| ||| |||
Db 863 AATGGGTAAAAGACACTTTATAGCCCGAGATGAACCTCTGGGCCACCCTTCAGGGTGCAC 922

Query Match	14.1%	Score 191.8	DB 9	Length 1221
Best Local Similarity	52.5%	Pred. N.53e-44		
Matches 517	Conservative 0	NonMatches 432	Indels 36	Gaps 3
QY	317	TGACAGTGATTGTGACATTTATCAGACTCTAAGAGGTTATGCTCAAAAGCTTGCTCTCAA	376	
DB	221	TCACCAGAGACTGTGAGCACTTCAAGGCTGAAAGGAGTTTCATACAGTGTCCCACTGAGCA	280	
QY	377	AGGAGGAGAAAGCTTCCCAATAGCCTATTCTTTGGTTGTCCACAAGATGCAATTTATGG	436	
DB	281	AAGAAGAGGTGGAGTTCCCTATTGCACTACTCTATGGTGATTCTGAGAGAGATTGAAAACT	340	
QY	437	TTGAAAGGCTTATCCATGCTATATACACAGCAACAATTTACTGCACTCCATTATGATC	496	
DB	341	TGAAAGGCTACTCGAGCTGTGTATGCCCTCGACACATATACGTGTCTCATGTGATG	400	
QY	497	GTAAGGCACTGTATACCTTCAAAGTTGCCATGACAAATTTAGCTAAGTGCTTCTCCAAATA	556	
DB	401	AGAAAGTCCCCAGAAACTTTCAAAGAGGCGGTCAAAGCAATTTATTTCTTGCTTCCCAATG	460	
QY	557	TTTTCATTTGCTTCCAAATTAGAGGCTGTGGAATATGCCACAAATTTCCAGAGCTCCAGGCTG	616	
DB	461	TCTTCATAGCCAGTACGTGGTTCGGGTGGTTATGCTCTGTGTCAGGGTGCAGCTG	520	
QY	617	ATTTAAATTTGCTGTGGAGCTTCTGAACTTTCAAATCCAGTGGAAATATGTTATCAACT	676	
DB	521	ACCTCAACTGCATGGAAGACTTGCTCCAGAGCTCAGTGCCTGGAAATATCTTCCGTGATA	580	
QY	677	TGCTGGGCAAGATTTTCCCTCGAAGTCAAAATTTTGAATTTGCTGTCCAGAGTTGAAAAAAC	736	
DB	581	CATGTGGAGCGGACTTTCCTATTAAGAGCAATGACAGATGGTCCAGGCTTCCAGATGT	640	
QY	737	TCAATGGAGCAAAATATGTTGGAGACGGTGAATACCCCAACACAGTAAATTTGAAAGATTC	796	
DB	641	TGAATGGAGAGGATAGCATGGAGTCCAGAGGTACCTCCTAAGCAAAAGAAACCCGCTGGA	700	
QY	797	CTTACCATCATGACTTAGACGGTGCTTATGAATATGTGAAGCTACCAATAGGACAA	856	
DB	701	AAATATCATTTTGAGTAGTGAGAGACAAATTACAC-----CTAACCA	742	
QY	857	ACATCTCCAAAGGAGCACCCCCCAATAACATTCAGATAATTTGGCGAGTGCCTTATTTTG	916	
DB	743	ACAAGAAGAGGATCTCCGCCCTTTAAATTTAACTATGTTTACAGGGAATCGTACATTTG	802	
QY	917	TTTTAAGTCAAGCATTTGTTTAAATATATTTTCCAACTCCATGTTCCAGACTTTTTTTG	976	
DB	803	TGGCTTCCGAGATTTGCTCCACATGTTTGGAGAACCTTAATATCCCACTGATTTG	862	
QY	977	CCTGGTCTAAAGACACATACTCTCTGTATGAGCACTTTTGGGCTACCTTGTANTCGGGTTC	1036	
DB	863	AATGGGTAAAGACACTTATAGCCAGATGAACACCTCTGGGCCACCCCTTCAGCGGTGCAC	922	

QY 1037 CAGGAATACCTGGGGAGATTCCAGATCAGCCAGGATG---TGTCTGATCTGCAGAGTA 1093
Db 923 GGTGGATGCTGGCTGTGTCCCAACCCCAAGTACGACATCTCAGACATGACTTCTA 982
QY 1094 AGACTCGCTTGTCAAGTGGAAATTAATGAGGGCTTTTCTATCCCACT----- 1143
Db 983 TTGCCAGGCTGTCAAGTGGCAGGGTCAATGAGGAGACATCGATAAGGTGCTCTTATG 1042
QY 1144 -----TGTACTGTGATCTCACTTCAAGGGTGTGATTTATGAGAGTGCAGAAATTAAGT 1198
Db 1043 CTCCTCGCTCTGGAATCCACAGCGGGTATCTCGGTTTATGGGGCTGGGACTTGAAT 1102
QY 1199 GGTATCAAGATGAGACATGGTTTGTCTAAATAATTTGATTTAAAGTGGACCTATCT 1258
Db 1103 GGTGCTTCAAAACCAATCACTGTTGGCCCAAGTTTGAACCAAGGTAGATGATG 1162
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
Db 1163 CTCTTCAGTCTTAGAAGAACTCT 1187

RESULT 7
US-09-797-207-1
; Sequence 1, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797, 207
; EARLIER FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1317
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: DNA
US-09-797-207-1

Query Match 14.1%; Score 191.8; DB 9; Length 1317;
Best Local Similarity 52.5%; Pred. No. 5.6e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;
QY 317 TGACCAAGTATTGACATTTATCAGACTTAAGAGGTATGCTCAAAAGCTTGTCTCAA 376
Db 317 TCACCAAGAGACTGTGAGCACTTCAAGGCTGAAAGGATTCATACAGTTCCCACTGAGCA 376
QY 377 AGGAGAGAAAAGCTTCCCAATAGCTATTCTTGGTGTCCACAAAGATGCAATTAAG 436
Db 377 AAGAAGGTTGGAGTTCCCTATTGTACATCTATGTTGATTCATGAGAGATGCAAACT 436
QY 437 TTGAAGGGTTATCCATGTATATACACAGCACAATTTATTTAGTCATCCATTAATGATC 496
Db 437 TTGAAGGGTACTCGAGCTGTGTATGTCCTTCAAGACATATATCTGTCTCCATGTGGATG 496
QY 497 GTAAGGCACCTGATACCTTCAAGTGTGCCATCAAAATTTAGCTTAAGTCTTCCCAATA 556
Db 497 AGAAGTCCCAGAAATTTCAAGAGGGGTCAGACAAATTTCTTCTGTTCCCAATG 556
QY 557 TTTTCAATGCTTCCAAATTAGAGGTGTGGAATATGCCCAATTTCCAGACTCCAGGCTG 616
Db 557 TCTTCATAGCAGTAAGCTGTGGTGTGTTATGCTCTCTGCTCCAGGTCAGGTCAGGCTG 616
QY 617 ATTAAATGCTTGTGGACCTTCTGAGTCTTCAATCCAGTGGAAATGATTTATCACT 676

Db 617 ACCTCAACTGCATGGAAGACTTGTCTCAGAGCTCAGTGGCTGGAAATTAATCTCTCGAATA 676
QY 677 TGTGGGCAAGATTTTCCCTCGAAGTCAAAATTTGAAATGGTGTGAGAGTTGAAAAAAC 736
Db 677 CATGTGGGACGCACTTTCTTATAAAGAGCAATGACAGAGATGTCAGAGGTCTCAAGATGT 736
QY 737 TCAATGGAGCAAAATATCTTGAGACGGTGAACCCCAACACAGTAAATTTGGAAGATTC 796
Db 737 TGAATGGAGGAATAGCATGGAGTACAGGTACTCTTAAGCACAAGAAACCCGCTGGA 796
QY 797 CTTACCATCATGAATCTAGACGGTGTCTTATGAATGTGTAAGTACCAATAAGGACAA 856
Db 797 AATATCACTTTGAGGTAGTGAAGACACATTACAC-----CTAACCA 838
QY 857 ACATCTCCAGGAGACACCCCCCATTAACATTCAGATATTTGTTGGCAGTGTCTATTTTG 916
Db 839 ACAAGAGAGGATCTCCCTCTTATTAATTTAACTATGTTTACAGGAATGGTACATG 898
QY 917 TTTTAAGTCAAGCATTTGTTAAATATATTTTCAACAACTCCATCGTTCAAGACTTTTTTG 976
Db 899 TGGCTTCCGAGATTTCTGTCACACATGTTTGAAGAACCTTAATCCCAACACTGATTTG 958
QY 977 CTGGTCTTAAGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTGATTCGGGTTTC 1036
Db 959 AATGGTAAAGACACTTATAGCCAGATGAACACCTCTGCGGCCACCTTCAGCGTGCAC 1018
QY 1037 CAGGAATACCTGGGGAGATTTCCAGATCAGCCAGGATG---TGTCTGATCTGCAGAGTA 1093
Db 1019 GGTGATGCTCTGGCTCTGTTCCCAACCCCAAGTACGACATCTCAGACATGACTTCTA 1078
QY 1094 AGACTCGCTTGTCAAGTGGAAATTAATTAAGAGCTTTTCTATCCCACT----- 1143
Db 1079 TTGCCAGGCTGTCAAGTGGCAGGTCATGAGGAGACATCGAATAAGGTGCTCTTATG 1138
QY 1144 -----TGTACTGTGATCTCAGCTTCCAGCGTGTGTATTTATGAGCTGCAGAAATTAAGT 1198
Db 1139 CTCCTGCTCTGGAATCCACAGCGGGCTATCTGCTTTATGGGGCTGGGACTTGAAT 1198
QY 1199 GGTATCAAAAGATGGAACATGTTTGTCTTAATTAATTTGATTTAAAGTGGAGCCCTATCT 1258
Db 1199 GGTATCTTCAAAACCAATCAGCTGTTGGCCCAAGTTTGAACCAAGGTAGATGATAATG 1258
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
Db 1259 CTCTTCAGTCTTAGAAGAACTCT 1283

Query Match 14.1%; Score 191.8; DB 13; Length 1317;
US-10-388-307-14
; Sequence 14, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwiensek, Tilo
; TITLE OF INVENTION: 3-N-Acetylglucosamine-6-phosphate 1-phosphotransferase
; TITLE OF INVENTION: Galactose-6-phosphate 1-phosphotransferase
; TITLE OF INVENTION: Galactose-6-phosphate 1-phosphotransferase
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/388,307
; CURRENT FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US/09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 1317
; TYPE: DNA
; ORGANISM: Human
US-10-388-307-14

[illegible]

RESULT 9

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US-10-084-406-14
; Sequence 14, Application US/10084406
; Publication No. US20030054525A1
; GENERAL INFORMATION:
; APPLICANT: Schwientek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylgalactosamine-alpha-R / (GlcNAc
; TITLE OF INVENTION: beta1,6-N-Acetylglucosaminyltransferase, C2GnT3
; FILE REFERENCE: 4503/IG031
; CURRENT APPLICATION NUMBER: US/10/084,406
; CURRENT FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: 09/645,192
; PRIOR FILING DATE: 2000-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 1317
; TYPE: DNA
; ORGANISM: Human
US-10-084-406-14

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Query Match	14.1%	Score 191.8	DB 15	Length 1317	
Best Local Similarity	52.5%	Prod. No. 5.6e-44			
Matches 517	Conservative	0	Mismatches 432	Indels 36	Gaps 3
QY	317	TGACAGTGATTGTGACATTTATCAGACTCTAAGAGGTTTATGCTCAAAAGCTTGCTCTCAA	376		
DB	317	TCACCAGAGACTGTGAGCACTTCAAGCTGGAAGGAAGTTCATACAGTTCCTCACTGAGCA	376		
QY	377	AGGAGGAGAAAGCTTCCCAATAGCCCTATCTTTGGTTGTCCCAAGATGCAATATATGG	436		
DB	377	AAGAAGAGGTGGAGTTCCCTATTATGCATCTCTATGGTGAATTCATGAGAGGATGGAAGAACT	436		
QY	437	TTGAAAGGCTTATCCATGCTATATACCAACGACACATATATTTACTGCAATCCATTATGATC	496		
DB	437	TTGAAAGGCTACTGCGAGCTGTGTATGCCCCCTCAGACATATAGTGTCCATGTGGATG	496		
QY	497	GTAAGGCACTGTATACCTTCAAAAGTTGCCATGAACAAATTTAGCTTAAGTGCTTCTCCAAAT	556		
DB	497	AGAAAGTCCCCAGAAACTTTTCAAAAGAGCGCGTCAAAAGCAATATATTTCTTGCTTCCCAATG	556		
QY	557	TTTTTCATTGCTTCCAAATATAGAGGCTGTGGAATATGCCCAACATTTCCAGACTCCAGGCTG	616		
DB	557	TCCTCATAGCCATGACTGGTTTCGGGTGGTTATGCTCTCTGGTCCAGGGTGCAGCTG	616		
QY	617	ATTTAAATTCGTTGTGGAGCTTTCGAAGCTTTCAATCCAGTGGAAATATGTTATCAACT	676		
DB	617	ACCTCAACTGCATGGGAAGACTTCTCCAGAGCTCAGTGCCGTGGAAATATCTCTCTGATA	676		
QY	677	TGTTGGGCGAAGATTTTCCCTCGAAGTCAAAATTTTGAATTTGGTGTCCAGAGTTTGAAGAAC	736		
DB	677	CATGTGGAGCGGACTTTCTATATAAGAGCAATGCGAGAGATGGTCCAGGCTCTCAGATGT	736		
QY	737	TCATPGGAGCAATATAGTTGGAGAGCGGTGAATACCCCAACAGATTAATTTGGAAGATTCA	796		
DB	737	TGAATGGGAGGAATAGCATGGAGTCCAGAGGTACCTCTTAAGCACAAGAAACCCGCTGGA	796		
QY	797	CTTACCACTCATGAACCTTAGACGGGTGCTTATGAATATGTGAAGCTACCAATAGGACAA	856		
DB	797	AAATTCATCTTTGAGGTAGTGAGAGACACATTCAC-----CTAACCA	838		
QY	857	ACATCTCCAGGAAGCACCCCCCAATAACATTCAGATATTTGTTGGCAGTCTTATTTTG	916		
DB	839	ACMAGAAGAGGATTCCTCCCCCTTATAATTTAACTATGTTTACAGGGAATTCGTACATTTG	898		
QY	917	TTTTTAAGTTCAGCAATTTGTTAATAATATTTTCAACAACTCCATCGTTCCAAACACTTTTTTG	976		
DB	899	TGGCTTCCGAGATTTGTCGTCCACATGTTTTGAGAAACCTTAATCCCACTGATTTG	958		
QY	977	CTGTCTTAAAGACACATCTCTCTGTATGAGCACTTTTGGGTACTCTTGATTCGGGTTC	1036		
DB	959	AATGGTTAAAGAACAATTATAGCCCCAGATGAACACCTCTGGGCCCAACCTTACAGGGTGCAC	1018		

QY 1037 CAGGAATFACCTGGGGAGATTCCAGATCAGCCAGGATG---TGCTGATCTGCAGAGTA 1093
Db 1019 GGTGGATGCTGCTGTGTTCCCAACCCAGTAAGACATCTCAGACATGACTTCTA 1078
QY 1094 AGACTGCGCTTGTCAAGTGAATTACTATGTAAGGCTTTTCTATCCAGT-----1143
Db 1079 TTGCCAGGCTGGTCAAGTGGCAGGTCATGAGGAGACATCATGAAGGTGCTCCTTATG 1138
QY 1144 -----TGTAATGATCTCACCCTTCGAAGCGTGTGTATTTATGAGCTGCAGAAATTAAGGT 1198
Db 1139 CTCCTGCTCTGGAATCCACCAGCGGCTATCTGCTTTATGGGCTGGGACTTGAATT 1198
QY 1199 GCGTTATCAAGATGACATCTGTTGCTTAATAATTTGATTTCTAAGTGGACCTTATCT 1258
Db 1199 GGATGCTTCAAAACCATCACCTCTTGGCCAAAGTTTGACCAAAGGTAGATGATAATG 1258
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
Db 1259 CTCTTCAGTCTTAGAAGATACT 1283

RESULT 10
US-09-797-207-3
; Sequence 3, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; EARLIER FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 3
; LENGTH: 2108
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: DNA
US-09-797-207-3

Query Match 14.1%; Score 191.8; DB 9; Length 2108;
Best Local Similarity 52.5%; Pred. No. 7.4e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACCACTGATTGTGACATTTATCAGACTCTAAGAGGTTTANGCTCAAAAGCTTGTCTCAA 376
Db 584 TCACCAGAGACTGTGAGCACTTCAAGGCTGAAAGGAAGTTCTATACAGTTCCCACTGAGCA 643
QY 377 AGGAGGAGAAAGCTTCCCAATAGCTATCTTCTGGTTGTCACAAAGATGCAATTATGG 436
Db 644 AAGAGAGGTGGAGTTCCTTATTCATATCTCTATGTTGATTCATGAGAGATGGAAGT 703
QY 437 TTGAAGGCTTATCCATGCTATATACCAACAGCAGCAATATTTTACTGTCATCCATTATGTC 496
Db 704 TTGAAGGCTTACTGCGAGCTGTGTATGCTCCCTCAGAACATATCTGTGTCATGCGATG 763
QY 497 GTAAGGCACTGATACCTTCAAGATTGCCATGACATTTAGCTAAGTGTCTTCCATA 556
Db 764 AGAAGTCCCAGAACTTTCAAAGAGCGGCTCAAGCAATATTTCTGCTTCCCAATG 823
QY 557 TTTTCATGCTTCCAAATTAGAGGCTGTGGATATATGCCCCACATTTCCAGACTCCAGGCTG 616
Db 824 TCITCATAGCCAGTAAGCTGTTGCGGTGTTTATGCTCTCCTGGTCCAGGCTGCAAGCTG 883
QY 617 ATTTAAATTCGTTGCGGACCTTCTGAAGTCTTCAATCCAGTGGAAATATGTTATCACT 676

Db 884 ACCTCAACTGATCGAAGACTTGTCTCAGAGCTCAGTGCCTGGAAATACTTCTCGAATA 943
QY 677 TGTGTGGGCAAGATTTTCCCTGTAAGTCAAAATTTTGAATTTGGTGTCTCAGAGTTCGAAAAAC 736
Db 944 CATGTGGAGCGGACTTTCCTATAAAGGCAATGAGAGATGGTCCAGGCTCTCAAGATGT 1003
QY 737 TCAATGGAGCAAAATATGTGTGAGACGGTGAACCCCAACAGTAATTTGGAAGATTCATCA 796
Db 1004 TGAATGGGAGGAATAGCATGTGAGTCAAGAGGTACCTCTTAAGCACAAGAAACCCGCTGGA 1063
QY 797 CTTACCATCATGAACCTTAGACGGGTGCTTATGATATATGTGAAGCTACCAATAAGAGCAA 856
Db 1064 AATATCACTTTGAGGTAGTGAGAGACATTTAC-----CTAACCA 1105
QY 857 ACATCTCAAGAGAGCAACCCCTCCATACATTTACATATTTGTTGGCAGTGTCTATTTTG 916
Db 1106 ACAAGAAGAGGATCCTCCCTCTTATAATTTAATATGTTTACAGGGAATGCGTACATTG 1165
QY 917 TTTTAAGTCAAGCATTTGTTAAATATATTTTCAACACTCCATCGTTCAAGACTTTTTTG 976
Db 1166 TGGCTTCCGAGATTTGTTCCACATGTTTGAAGAACCCTTAATCCCAACTGATTG 1225
QY 977 CCGTCTTAAAGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTGATTCGGGTTT 1036
Db 1226 AATGGCTTAAAGACACTTTATAGCCAGATGAACACCTCTGGGCCACCTTCAGCGTGCAC 1285
QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGGATG---TGTCTGATCTGCAGAGTA 1093
Db 1286 GTGATGCTGCTGGCTCTGTTCCCAACCCCAAGTAGACATCTCAGACATGACTTCTA 1345
QY 1094 AGACTGCGCTTGTCAAGTGGAAATTTACTATGAAGGCTTTTTTCTATCCAGT-----1143
Db 1346 TTGCGAGGCTGCTCAAGTGGCAGGCTCATGAGGAGACATCGATAGGGGTGCTCTTATG 1405
QY 1144 -----TGTACTGGATCTCACCTTGAAGCGTGTATTTATGAGCTGCAGAAATTAAGGT 1198
Db 1406 CTCCTGCTCTGGAATCCACCGCGGCTATCTGCGTTTATGGGCTTGGGACTTGAAT 1465
QY 1199 GCGTTATCAAGATGGACATTTGTTGCTAATAATTTGATTTCTAAGGTGGACCTTATCT 1258
Db 1466 GGATGCTTCAAAACCATCACCTGTTGGCCAAAGTTTGACCAAAGGTAGATGATAATG 1525
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
Db 1526 CTCCTTCAGTCTTAGAAGATACT 1550

RESULT 11

US-09-981-353-43
; Sequence 43, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 43
; LENGTH: 2147
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 2921009CB1
US-09-981-353-43

Query Match 14.1%; Score 191.8; DB 10; Length 2147;
Best Local Similarity 52.5%; Pred. No. 7.5e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACCAAGTATGTTGACATTTATCAGACTCTAAGAGGTTATGCTCAAAAGCTTGTCTCAA 376
Db |||||
QY 683 TCACCAAGACTGTGAGCACTTCAAGGCTGGAAGAGTTCATACAGTTCACACTGACGA 742
Db |||||
QY 377 AGGAGAGAAAAGCTTCCCAATAGCTATTTCTTTGGTTGTCCCAAGATGCAATTAATGG 436
Db |||||
QY 743 AAGAAGAGTGGAGTTCCCTATTGTCATCTCTATGGTATTCATGAGAAGATTGAAACT 802
QY 437 TTGAAGGCTTATCCATGTATATACACAGCAGCAATATTACTGCAATCAATTAATGATC 496
Db |||||
QY 803 TTGAAGGCTTATCCAGCTGTGTATGCGCTTCAAGCAATATATCTGTGTCCATGTGATG 862
QY 497 GTAAGGCACTGATATCTTCAAGAGTTGCGATGAACAAATTTAGCTAAGTGTCTTCCCAATA 556
Db |||||
QY 863 AGAAGTCCCAAGAACTTTCAAGAGGGGTCAGAGCAATTTCTTCTTCCCAATG 922
QY 557 TTTTCAATTCCTTCCCAATAGAGGCTGTGGAATATGCCCCCAATTTCCAGACTCCAGGCTG 616
Db |||||
QY 923 TCTTCATGACCAAGTGTGCTGCGGTGTTTATGCTCTCCAGGCTGCAAGCTG 982
QY 617 ATTAAATTTGCTTGTGCGACCTTCTGAAGTCTTCAATCCAGTGGAAATATGTTATCAACT 676
Db |||||
QY 983 ACCTCACTGTATGGAAGCTTGTCCAGACTGAGTCCGCTGGAAATATCTTCTGATA 1042
QY 677 TGTGTGGCAAGATTTTCCCTGAAAGTCAAAATTTTGAATTTGGTGTCCAGAGTTGAAAAC 736
Db |||||
QY 1043 CATGTGGGACGACCTTCTTATAAGAGCAATGCGAGAGTGTCCAGGCTCTCAAGATG 1102
QY 737 TCAATGGAACAATATGTTGGAGAGCGGTGAACCCCAACAGTAATTTGGAAGATTCA 796
Db |||||
QY 1103 TGAATGGGAGGAATAGCATGGAGTGTGAGGACCTCTTCAAGCAAAAGAACCCGCTGGA 1162
QY 797 CTATCAATCATGAACCTTAGACGGGTGCTTATGAATATGTGAAGCTACCAATAGAGCAA 856
Db |||||
QY 1163 AATATCACTTTGAGGTAGTGAGAGACATTTACAC-----CTAACCA 1204
QY 857 ACATCTCCAGAGAGCAACCCCTTCAATCATATTCAGATATTTGTTGGAGTGTCTTATTTG 916
Db |||||
QY 1205 ACAAGAAGAGGATCTCTCCCTTATTAATTTTAACTATGTTTACAGGGAATGCGTACATG 1264
QY 917 TTTTAAAGTCAAGCATTTGTTAAATATATTTTCAACAACTCCATCGTTCAAGACTTTTTT 976
Db |||||
QY 1265 TGGCTTCCCGAGATTTCTGTCACACATGTTTGAAGACCTTAATCCCAACTGATG 1324
QY 977 CTGTGCTTAAAGACATATCTCTCTGATGAGCACTTTTGGGCTACCTTGATTCGGGTT 1036
Db |||||
QY 1325 AATGGGTAAGACACATTTATAGCCAGATGAACACCTCTGGGCAACCCCTTCAGCGTGCAC 1384
QY 1037 CAGGAATACCTGCGGAGATTTCCAGATCAGCCAGGATG---TGCTGTGATCTGCAGATA 1093
Db |||||
QY 1385 GGTGATGCTTGCTGCTGTTTCCCAACACCCCAAGTACGACATCTCAGACATGACTTCTA 1444
QY 1094 AGACTGCGCTTGTCAAGTGGAAATTAATGAAGGCTTTTCTATCCAGT----- 1143
Db |||||
QY 1445 TTGCCAGGCTGCTCAAGTGGCAGGCTCATGAGGAGACATCGATAAGGCTGCTCTTATG 1504
QY 1144 -----TGTAAGTCTCACTTCCAGCGTGTGTTATTAAGGCTGCGAATTAAGT 1198
Db |||||
QY 1505 CTCCCTGCTCTGGAATCACCAGCGGCTATCTGCGTTTATGGGCTGCGGACTTGAAT 1564
QY 1199 GGTATCAAGATGGACATTTGTTTGTCTTAATAATTTGATTTCAAGGTGGAACCTTATCT 1258
Db |||||
QY 1565 GGATGCTTCAAAACCATCACCTGTTGGCAACAGTTTGGCCAAAGGTAGATGATAATG 1624
QY 1259 TGAATTAATGCTTGGCAAGAACT 1283
Db |||||
QY 1625 CTCTTCAAGTGTGGAAGAACT 1649

RESULT 12

US-09-925-297-337

; Sequence 337, Application US/09925297

; Patent No. US20020081659A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA105
; CURRENT APPLICATION NUMBER: US/09/925,297
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05989
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 928
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 337
; LENGTH: 2229
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2208)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (2216)
; OTHER INFORMATION: n equals a,t,g, or c
; US-09-925-297-337

Query Match 14.1%; Score 191.8; DB 9; Length 2229;

Best Local Similarity 52.5%; Pred. No. 7.7e-44;

Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACCAAGTATGTTGACATTTATCAGACTCTAAGAGGTTATGCTCAAAAGCTTGTCTCAA 376
Db |||||
QY 743 TCACCAAGACTGTGAGCACTTCAAGGCTGGAAGAGTTCATACAGTTCACACTGACGA 802
QY 377 AGGAGGAAAAGCTTCCCAATAGCTTATTTCTTTGGTTGTCCCAAGATGCAATTAATGG 436
Db |||||
QY 803 AAGAAGAGTGGAGTTCCCTATTGTCATCTCTATGGTATTCATGAGAAGATTGAAACT 862
QY 437 TTGAAGGCTTATCCATGTATATACCAACAGCAATATTTACTGCAATTAATGATC 496
Db |||||
QY 863 TTGAAGGCTACTGCGAGCTGTGTATGCGCTTCAAGCAATATATCTGTGTCCATGTGATG 922
QY 497 GTAAGGCACTGATATCTTCAAGAGTTGCGATGAACAAATTTAGCTAAGTGTCTTCCCAATA 556
Db |||||
QY 923 AGAAGTCCCAAGAACTTTTCAAGAGGGGTCAGAGCAATTTATTTCTTCTTCCCAATG 982
QY 557 TTTTCAATTTCTTCCAAATTAAGAGGCTGTGGAATATGCCACATTTTCCAGACTCCAGGCTG 616
Db |||||
QY 983 TCTTCATAGCAGTAAGCTGTGTTGCGGTGCTTTATGCTCTCTGCTCCAGGCTGCAAGCTG 1042
QY 617 ATTTAAATTTGCTTGTGCGACCTTCTGAGTCTTCAATCCAGTGGAAATATGTTATCAACT 576
Db |||||
QY 1043 ACCTCAATCTGCATGGAAGACTTGTCTCCAGAGCTCAGTCCGCTGGAATATCTTCTGAAATA 1102
QY 677 TGTGTGGCAAGATTTTCCCTGAAAGTCAAAATTTTGAATTTGGTGTCCAGAGTTGAAAAC 736
Db |||||
QY 1103 CATGTGGAGCGACTTTCTTATAAGAGCAATGCGAGAGTGTCCAGGCTCTCAAGATG 1162
QY 737 TCAATGGAACAATATGTTGGAGAGCGGTGAACCCCAACAGTAATTTGGAAGATTCA 796
Db |||||
QY 1163 TGAATGGGAGGAATAGCATGGAGTGTGAGGACCTCTTCAAGCAAAAGAACCCGCTGGA 1222
QY 797 CTTACCATCATGAACCTTAGAGCGGTCCTTATGAATATGTGAAGCTACCAATAGAGCAA 856
Db |||||
QY 1223 AATATCACTTTGAGGTAGTGAGAGACATTTAC-----CTAACCA 1264
QY 857 ACATCTCAAGAGAGCAACCCCTTCAATCATATTCAGATATTTGTTGGAGTGTCTTATTTG 916
Db |||||
QY 1265 ACAAGAAGAGGATCTCTCCCTTATAATTTTAACTATGTTTACAGGGAATGCGTACATG 1324
QY 917 TTTTAAAGTCAAGCATTTGTTAAATATATTTTCAACAACTCCATCGTTCAAGACTTTTTT 976
Db |||||
QY 1325 TGGCTTCCCGAGATTTCTGTCACACATGTTTGAAGACCTTAATCCCAACTGATG 1384

QY 977 CCTGGCTAAAGACACATCTCTCTGATGAGCATTCTTTGGCTACCTTGATTCGGGTTTC 1036
Db 1385 AATGGGTAAAGACACATCTATAGCCAGATGAACACCTCTGGGCCACCTCTCAGCGTGCCAC 1444
QY 1037 CAGGATACCTGGGGAGATTTCAGATCAGCCAGATG- --TGTCTGATCTGCAGAGTA 1093
Db 1445 GGTGATGCTCTGCTCTGTTTCCCAACCCAGGATGACGACATCTCAGACATGATCTCTTA 1504
QY 1094 AGACTGCTCTGTCAGAGTGAATTAATGTAAGGCTTTTTTCTATCCAGT----- 1143
Db 1505 TTGCGAGGCTGGTCAAGTGGCAGGCTCATGAGGAGACATGATAAGGCTGCTCTTATG 1564
QY 1144 -----TGTACTGATCTCAGCTTCAGAGCTGTGATTTATGAGCTCAGAAATTAAGT 1198
Db 1565 CTGCTCTCTGGAATCCACAGCGGCTATCTGCGTTTATGGGCTGGGACATTAAT 1624
QY 1199 GGCTTATCAAGATGAGACATTTGTTTGTGTAATAAATTTGATTTCTAAGCTGAGCCCTATCT 1258
Db 1625 GGATGCTTCAAAACCATCCTCTGTGGCCACACAGTTTGACCCAAAGGTAGATGATAATG 1684
QY 1259 TGATTAATCTTGGCAGAAAGCT 1283
Db 1685 CTCTTCAGTCTTAGAAGATACT 1709

RESULT 13

US-10-106-698-1555
; Sequence 1555, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 1555
; LENGTH: 2236
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2215)..(2215)
; OTHER INFORMATION: n equals a.t.g, or c
; NAME/KEY: misc feature
; LOCATION: (2223)..(2223)
; OTHER INFORMATION: n equals a.t.g, or c
US-10-106-698-1555

Query Match 14.1%; Score 191.8; DB 15; Length 2236;
Best Local Similarity 52.5%; Pred. No. 7.7e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;
QY 317 TGACCACTGATTTGACATTTATCAGACTCTAAGAGGTTATGCTCAAAAGCTTTGCTCAA 376
Db 750 TCACCAAGACTGTGAGCACTTCAAGGCTGAAAGGAAGTTATACAGTTCCCACTGAGCA 809
QY 377 AGGAGGAAAGCTTCCCATAGCTATCTTTGGTTGTCACAAAGATGCAATATGG 436
Db 810 AAGAAGAGGTGGAGTTCCTTATGCTATCTCTATGTTGATTCATGAGAAGATTGAAACT 869
QY 437 TTGAAAGGCTTATCCATGCTATATACCAACAGCAGCAATATTTTACTGCTATCCATTATGATC 496
Db 870 TTGAAAGGCTTACTGCGAGCTGTGTATGCGCTCAGAACATATCTGTGCTCATGTGGATG 929

QY 497 GTAGGCACTGATACCTTCAAGTTCGATGAACAATTTAGTAACTGTTCTTCCAATA 556
Db 930 AGAGTCCCCAGAAACTTTCAAGAGGCGGTCAAGCAATTTATTTCTGTTCCCAATG 989
QY 557 TTTTCAATGCTTCCAAATTTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTG 616
Db 990 TCTTCAATAGCCAGTAACTGTTTGGTGGTTTATGCTCTCTGTCAGGGTGCAGCTG 1049
QY 617 ATTTAAATGCTTGTGCGACCTTCTGAAAGTCTTCAATCCAGTGGAAATATGTTATCAACT 676
Db 1050 ACCTCAACTGCTAGGAAGACTTGTCTCCAGAGCTCAGTGCCTGTGAAATATCTTCTGAATA 1109
QY 677 TGTGTGGCAGAGATTTTCCCTGAGTCAAAATTTGATTTGTTGTTGTCAGAGTTCGAAAAAC 736
Db 1110 CAGTGGGAGCGACTTCTTCTATAAAGAGCAATGAGAGATGTTCCAGGCTCTCAGATGT 1169
QY 737 TCAATGGAGCAAAATATGTTGGAGCGGTGAACCCCAACAGTAAATTTGGAAGATTCA 796
Db 1170 TGAATGGGAGGAATAGCATGGAGTACAGAGGTACCTCTTAAGCAACAAAGAACCCGCTGGA 1229
QY 797 CTTACCATCTGAACTTAGACGGGTGCTTATGATATGTAAGCTTACCAATAGGACAA 856
Db 1230 AATATCACTTTGAGGTAGTGAAGACATTTACAC-----CTAACA 1271
QY 857 ACATCTCCAAGGAGCACCCCCCATTAACATTTCAAGATATTTTGGCAGTCTTATTTTG 916
Db 1272 ACAAGAAGAGGATCTCTCCCTTATAATTTAACTATGTTTACAGGAATGCGTACATTG 1331
QY 917 TTTTAAATCAAGCATTTGTTAAATATATTTTCAACACTCCATCGTTCAAGACTTTTTTG 976
Db 1332 TGGCTTCCCGAGATTTGTTCCCAATGTTTGAAGAACCTTAATCCCAACTGATTTG 1391
QY 977 CTTGCTCTAAAGACACATCTCTCTCATGAGCACTTTTGGGCTATCTTGAATTCGGGTTTC 1036
Db 1392 AATGGTAAAGACACTTATAGCCAGATGAACACCTCTGGGCCACCTTCAGCGTGAC 1451
QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCCGAGTATG- --TGTCTGATCTCAGAGTA 1093
Db 1452 GGTGATGCTCTGGATCCCAACCCAGTACGACATCTCAGACATGACTCTTA 1511
QY 1094 AGACTGCGCTTGTCAAAGTGAATTTACTATGAAGGCTTTTCTATCCAGT----- 1143
Db 1512 TTGCCAGGCTGTCAAAGTGGCAGGCTCATGAGGAGACATCGATAAGGCTGCTCTTATG 1571
QY 1144 -----TGTACTGAGTCTCAGCTTCCAGCGGTGTTATTTATGAGCTGCGAATTAAGGT 1198
Db 1572 CTCCCTGCTCTGGAATCCACGCGGCTATCTGCGTTATGCGGCTGGGAGCTTGAAT 1631
QY 1199 GGTCTATCAAGATGAGCATTTGTTGCTAATAAATTTGATTTAAAGTGGACCTTATCT 1258
Db 1632 GGAATGCTTCAAAACCATCCTGTTGCGCAACAGTTTGACCCAAAGGTAGATGATAATG 1691
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
Db 1692 CTCTTCAGTCTTAGAAGATACT 1716

RESULT 14

US-09-874-390-1
; Sequence 1, Application US/09874390
; Patent No. US20020081656A1
; GENERAL INFORMATION:
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UDP-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta-1,3-N-Acetylglucosamine-alpha-R /
; TITLE OF INVENTION: N-Acetylglucosamine-beta-1,3-N-Acetylglucosamine-alpha
; TITLE OF INVENTION: a-R (GlcNAc to GalNAc)
; TITLE OF INVENTION: beta-1,6-N-Acetylglucosaminyltransferase, C2/4
; FILE REFERENCE: P199801704 WO JNY
; CURRENT APPLICATION NUMBER: US/09/874,390
; CURRENT FILING DATE: 2001-06-04
; PRIOR APPLICATION NUMBER: DK PA 1998 01605
; PRIOR FILING DATE: 1998-12-04

; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2319
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (496)...(1809)
; OTHER INFORMATION: cdna sequence
US-09-874-390-1

Query Match 14.1%; Score 191.8; DB 9; Length 2319;
Best Local Similarity 52.5%; Pred. No. 7, 9e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACGAGTATGTCAGATTTATCAGATCTTAAGAGGTATGCTCAAAAGCTGTCTCAA 376
Db 812 TCACGAGAGCTGTGAGCATCTCAAGGCTGAAGAGGTTCATACAGTTCCTCACTGAGCA 871

QY 377 AGGAGGAGAAAGCTTCCCAATAGCTATCTTTGGTTGTCCCAAAAGATGCAATATGG 436
Db 872 AGAAGAGGTGAGTTCCTATGCACTCTATGCTGATTCATGAGAGATTCGAAGACT 931

QY 437 TTGAAGGCTTATCCATGCTATATACACGACCAATATTTACTGCTCATTTATGATC 496
Db 932 TTGAAGGCTTATCCGAGCTGTATGCTGCTCAGACATATATCTGTGCTCAATGCTGATG 991

QY 497 GTAGGCACTGATACCTTCAAGTTGCTCATGACCAATTTAGCTTAAGTCTTCCCAATA 556
Db 992 AGAGTCCCAAGAACTTTCAAGAGGCGGTCAAGCAATTTATTTGCTTCCCAATG 1051

QY 557 TTTTCATGCTTCCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTG 616
Db 1052 TCTTCATGCCAGTAACTGTGCTGGTGTATGCTCTGCTCCAGGCTGCAAGCTG 1111

QY 617 ATTAAATGCTTGTGAGCTTCTGAAGTCTTCATCCAGTGAATATGTTATCACT 676
Db 1112 ACCTCACTGCTGAGAGCTTGTCTCCAGAGCTCAGTCCGCTGGAATATCTTCTGAATA 1171

QY 677 TGTGTGGGCAAGATTTCCCTGAGTCAAAATTTGAAATGCTGAGAGTTGAAAGAAAC 736
Db 1172 CATGTGGGAGCGATTTCTATAGAGCAATGAGAGATGCTCCAGCTCTCAGATGT 1231

QY 737 TCATGGAGCAATATGTTGGAGCGGTGAACCCCAACAGTAATTTGGAAGATCA 796
Db 1232 TGAATGGAGGAATAGCATGGAGTCAAGAGTACCTCTTAAGACAAAGAAACCCGCTGGA 1291

QY 797 CTTCATCATGAACCTTAGAGGCTGCTTATGATATGTGAAGCTACCAATAGGACAA 856
Db 1292 AATATCACTTGGAGTGTGAGAGACATTTACAC-----CTAACCA 1333

QY 857 ACATCTCCAGGAAGCAACCCCAATACATTCAGATATTTGTTGGAGTGTCTTATTTG 916
Db 1334 ACAAGAAGAGATCTCCCTCTTAAATTTAACTATGTTTACAGGGAATGCGTACATG 1393

QY 917 TTTTAAATCAGCATTTGTTAAATATTTTCAACATCTCCATGCTTCAAGCTTTTTTG 976
Db 1394 TGGCTTCCGAGATTTGCTTCAACATGTTTTGAAGAACCTTAAATCCCAACAACTGATG 1453

QY 977 CTTGCTTAAAGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTGAATTCGGGTT 1036
Db 1454 AATGGTAAAGACACTTATAGCCAGATGAACCTCTGAGGCACTTCCAGGCTGAC 1513

QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGGATG---TGTCTGATCTGCAAGTA 1093
Db 1514 GGTGATGCTGGCTGTGTCTCCCAACCCCAAGTACGATCTCAGATGATGATCTTA 1573

QY 1094 AGACTCGCTTGTCAAGTGAATTAATGAGGCTTTTTCTATCCCACT----- 1143
Db 1574 TTGCCAGGCTGTCAAGTGGCAGGCTCATGAGGAGACATGATAGGCTGCTCTTATG 1633

QY 1144 -----TGTAAGTGTCTCACCCTTGAAGGCTGTGATTTATGAGAGTGCAGAAATTAGGT 1198

Db 1634 CTCCCTGCTCTGGAATCCACAGCGGCTATCTCGCTTTATGCGGCTTGGGACTTGAAT 1693
QY 1199 GCGTTATCAAGATGAGCATTTGCTTAATAAATTTGATTTAAAGGTGGACCTTATCT 1258
Db 1694 GAGTCTTCAAAACCATCCTGTTGGCCAAACAAGTTTGACCAAGGTAGATGATAATG 1753

QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
Db 1754 CTCTTCAGTCTTAGAAGATACCT 1778

RESULT 15
US-10-388-307-16
; Sequence 16, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schlientek, Tilo
; APPLICANT: Clausen, Henzik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GLGNAC
; TITLE OF INVENTION: to Galnac) beta1,6-N-Acetylglucosamineyltransferase, C2GNT3
; FILE REFERENCE: 4503/IG031
; CURRENT APPLICATION NUMBER: US/10/388,307
; PRIOR FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US/09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; TYPE: DNA
; ORGANISM: Human
US-10-388-307-16

Query Match 13.6%; Score 185.2; DB 13; Length 1203;
Best Local Similarity 52.1%; Pred. No. 4, 1e-42;

Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

QY 327 TTGTGACATTTATCAGACTCTAAGAGGTATGCTCAAAAGCTTGTCTCAAGAGGAGAA 386
Db 213 TTGAAGGATCTTGTACCCAGAGGCACTACATCAGAGCCCTTTATCTAAGAGAGAC 272

QY 387 AAGTTCCCAATAGCTTATTTTGTGTTGTCACAAAGATGCAATTTATGTTGAAGGT 446
Db 273 TGACTTTCCCTTGGCATATATATGTTGTCATCATCATCTTTGACACCTTTGCAAGCT 332

QY 447 TATCCATGCTATATACACAGGACATATTTACTGCATCCATATGATCGTAAGGCAC 506
Db 333 CTTGAGGCTTATTTACATGCCCAAAATATCTACTGTGTTGATGATGAAAGAGAAC 392

QY 507 TGATACCTTCAAGTTCCTCATGAACATTTAGCTAAGTGTCTCTCAATTTTTCATTC 566
Db 393 AACTGAATTTAAGATGCGGTAGAGCACTATTAACTGCTTCCCAACGCTTTTCTGCG 452

QY 567 TTCAAATAGAGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTGATTTAAATG 626
Db 453 TTCAAAGATGAACCCGTTGCTTATGAGGAGATCTCCAGGCTCCAGGCTGACCTGA 512

QY 627 CTTGTCGAGCTTCTGAAGTCTTCAATCCAGTGAATATGTTATCAACTGTGTGGGCA 686
Db 513 CATCAGAGATTTTCTGCTTCGAGGCTCATGAGAGTACGTTATCAACACCTGTGGCA 572

QY 687 AGATTTTCCCTGAGTCAAAATTTGATTTGTTGTCAGAGTTGAAAGAACTCATAGGAC 746
Db 573 AGACTTCCCTGAAACCAACCAAGGAAATAGTTCAGTATCTGAAAGGATTTAAAGGTA 632

QY 747 AAATATGTTGGAGAGCGTGAAACCCCAACAGTAATTTGGAAGATTCACATTACATCA 806
Db 633 AAATATCAACCCAGGCTGCTGCCCACTCATGCAATTTGAGGAGCTAATATATGTC 692

QY 807 TGAACCTTAGACGGTGCCTTATGTAATATGTGAAGCTACCAATAGGACAAACATCTCCAA 866
 Db |||||
 QY 693 CCAAGAGCACCTGGGCA-----AAGAGCTTTCCTATGTGATAGAACACACGGTTGHA 746
 Db |||||
 QY 867 GGAAGCACCCCCCAATAACATTCAGATATTTGTTGGCAGTGCCTTATTTTGTTTTAACTCA 926
 Db |||||
 QY 747 ACCGGCTCCCCCCCCAATACTCAACAATTTACTTTTGGCTCTGCTTATGTGGCTCTATCAAG 806
 Db |||||
 QY 927 AGCATTTGTAAATATATATTTTCAACAACCTCCATCGTTCAAGACTTTTTCCTGGTCTAA 986
 Db |||||
 QY 807 AGAGTTTGCCAACTTTGTTCTGCATGACCCACGGGCTGTTGATTTGCTCCAGTGGTCCAA 866
 Db |||||
 QY 987 AGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTGTATTCGGGTTCCAGGATACC 1046
 Db |||||
 QY 867 GGACACTTTTCAGTCTCTGATGAGCACTTTCTGGGTGACACTCAATAGGATTCAGGTGTTC 926
 Db |||||
 QY 1047 TGGGGAGATTTCCAGATCAGCCCGAGATGTGTCTGATCTGCAGAGTAAGACTGCGCTTGT 1106
 Db |||||
 QY 927 TGGCTCTATGCCAAATGCATCCTGACTG-----GAACTCAGAGCTAT 971
 Db |||||
 QY 1107 CAAGTGAATTAATAAGAGGCTTTTCTATCCAGTTGTACTGTGATCTCACCTTGAAG 1166
 Db |||||
 QY 972 AAAGTGGAGTGACATGGAAGACAGACACGGAGGC---TGCCACGGCCACTATGTACATGG 1028
 Db |||||
 QY 1167 CGTGTCTATTTATGGAGCTGCAGAAATTAAGTGGCTTATCAAGATGACATTGGTTTC 1226
 Db |||||
 QY 1029 TATTGTATCTATGGAACGGAGACTTAAAGTGGCTGTTAACTCACCAAGCCTGTTTC 1088
 Db |||||
 QY 1227 TAATAAATTTGATCTTAAGGTGGACCTTATCTTGATTAATGCTTGGCAGAAAGCTTGA 1286
 Db |||||
 QY 1089 TAACAAGTTTGAGCTTAATACCTACCCCTTACTGTGGAATGCCCTAGAACTGAGGCATCG 1148
 Db |||||
 QY 1287 AGAA 1290
 Db |||||
 QY 1149 CGAA 1152
 Db |||||

Search completed: February 1, 2004, 00:18:53
 Job time : 528 secs

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OM protein - protein search, using sw model

Run on: January 30, 2004, 12:49:55 ; Search time 21 Seconds
(without alignments)
912.706 Million cell updates/sec

Title: US-10-084-406-2
Perfect score: 2389
Sequence: 1 MKIFCYFKHTLQKVFILP.....DWILPSEKLFMDENLTTTS 453

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/prodata/1/1aa/5A_COMB.pap: *
2: /cgn2_6/prodata/1/1aa/5B_COMB.pap: *
3: /cgn2_6/prodata/1/1aa/6A_COMB.pap: *
4: /cgn2_6/prodata/1/1aa/6B_COMB.pap: *
5: /cgn2_6/prodata/1/1aa/ECTUS_COMB.pap: *
6: /cgn2_6/prodata/1/1aa/backfiles.pap: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	868	36.3	438	3	US-09-233-506-2
2	863.5	36.1	428	1	US-07-955-041-4
3	863.5	36.1	428	1	US-08-227-455-4
4	863.5	36.1	428	1	US-08-474-482-4
5	863.5	36.1	428	1	US-08-487-069-4
6	863.5	36.1	428	3	US-09-233-506-3
7	711	29.8	400	1	US-08-118-906-14
8	711	29.8	400	1	US-08-486-136-14
9	711	29.8	400	1	US-08-488-135-14
10	711	29.8	400	2	US-08-474-085-14
11	711	29.8	400	3	US-09-233-506-4
12	383	16.0	126	1	US-08-118-906-4
13	383	16.0	126	1	US-08-486-136-4
14	383	16.0	126	1	US-08-488-135-4
15	383	16.0	126	2	US-08-474-065-4
16	355	14.9	126	1	US-08-118-906-2
17	355	14.9	126	1	US-08-486-136-2
18	355	14.9	126	1	US-08-488-135-2
19	355	14.9	126	2	US-08-474-065-2
20	172	7.2	64	3	US-09-233-506-10
21	126	5.3	33	1	US-08-118-906-6
22	126	5.3	33	1	US-08-486-136-6
23	126	5.3	33	1	US-08-488-135-6
24	126	5.3	33	2	US-08-474-065-6
25	119	5.0	316	1	US-08-597-236-12
26	119	5.0	316	1	US-08-748-682A-12
27	113.5	4.8	794	4	US-09-417-485D-8

28	113	4.7	695	4	US-09-134-001C-4341	Sequence 4341, Ap
29	106	4.4	33	1	US-08-118-906-8	Sequence 8, Appl
30	106	4.4	33	1	US-08-486-196-8	Sequence 8, Appl
31	106	4.4	33	1	US-08-488-135-8	Sequence 8, Appl
32	106	4.4	33	2	US-08-474-065-8	Sequence 8, Appl
33	102.5	4.3	433	4	US-09-345-236B-43	Sequence 43, Appl
34	102.5	4.3	652	1	US-08-471-570-10	Sequence 10, Appl
35	102.5	4.3	769	1	US-08-471-570-8	Sequence 8, Appl
36	102.5	4.3	821	2	US-08-451-822A-13	Sequence 13, Appl
37	102.5	4.3	821	4	US-08-323-430-13	Sequence 13, Appl
38	100.5	4.2	2184	4	US-09-417-485D-6	Sequence 6, Appl
39	100	4.2	439	3	US-09-457-046B-68	Sequence 68, Appl
40	97.5	4.1	310	2	US-08-701-191A-7	Sequence 7, Appl
41	97.5	4.1	853	4	US-08-913-880C-17	Sequence 17, Appl
42	97.5	4.1	858	4	US-08-913-880C-16	Sequence 16, Appl
43	97.5	4.1	860	4	US-08-913-880C-15	Sequence 15, Appl
44	97.5	4.1	862	4	US-08-913-880C-14	Sequence 14, Appl
45	97.5	4.1	865	4	US-08-913-880C-13	Sequence 13, Appl

ALIGNMENTS

RESULT 1
US-09-233-506-2
; Sequence 2, Application US/092333506
; Patent No. 6136580
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms
; TITLE OF INVENTION: Core 2, Core 4 and I Branches
; FILE REFERENCE: P-LJ 3415
; CURRENT APPLICATION NUMBER: US/09/233,506
; CURRENT FILING DATE: 1993-01-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-233-506-2

QY	23	LWLSLLKLNIV-----RLFPQKDIYLYEYSLTSPFVRN-RYTHVKDEVRYEYVNC	75
Db	13	LWALGCTYLLATVALKUSFLKCDSDHGLSESSQYCRNLYNFKLPKAKRSINCSG	72
QY	76	IY--EQEPL--EIGKSLRIRRDIIIDDDVVAMTSDCDIYQTLRGYAKLVSKKEKSF	131
Db	73	VTRGDQEAIVLQAILNNLEVKKR-EPTDTHYLSLRDCEHFKAEKRFQFPLSKEEVEF	131
QY	132	PIAYSLVHKDAIMVERLIHAIYQHNIIYCHIDRAKAPDTFKVAMNNAKCSNFIASK	191
Db	132	PIAYSMWIEKIEFELRAVAPQNIYCVHDEKSPETFEAKVAIIISCPFNVEISK	191
QY	192	LEAVEYAHISLQADLNCLSDLLKSSIQWYVNLGQDPPLKSNFELSELKLNANM	251
Db	192	LVRVYASWSSEVQADLNCEMEDLLQSSVPWKYFLNTCGTDFPIKSNAMVQALKMNGRS	251
QY	252	LETVPNSKLERITYHHELRVPYEVVKLPITNTSKAPPHNIOIFVGSAYFVLSQAF	311
Db	252	MESEVPPKHETRWKHYFEVVR---DTLHL---TNKKDPPPNLTMTFTGNAYIVASDF	305
QY	312	VKYLFFNNSIVQDPPFAWSKDYSPDEHFATLIRVPGIEI-SRSAQDYSDLOSQKRLVK	370
Db	306	VQHVLPKPKSQOLIEWKDYSPDEHLWATLQBARWMPGSPVNPYKIDISDWTSTARLVK	365
QY	371	WNYEGEFF-----YPSCTGSHLSVCVYGAELRWLIKDHGFANKFDSKVDPIILKCLA	425

Db 366 WQHEGIDKAPYPCSGIHQRAICVYGAGDLNWLQNHLLANKFKDPKVDNALQCL 425
QY 426 EKL 428
Db 426 EYL 428
RESULT 2
US-07-955-041-4
; Sequence 4, Application US/07955041
; Patent No. 5360733
; GENERAL INFORMATION:
; APPLICANT: FUKUDA, MINORU
; APPLICANT: BIERHUIZEN, MARTI FA
; TITLE OF INVENTION: A NOVEL BETAL-6
; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTTRANSFERASE, ITS ACCEPTOR MOLECULE,
; TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
; TITLE OF INVENTION: ENZYMATIC ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/07/955,041
; FILING DATE: 19921001
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, CATHRYN
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9294
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-535-9001
; TELEFAX: 619-535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 428 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-955-041-4
Query Match 36.1%; Score 863.5; DB 1; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;
QY 28 LKLLNVRRLF--PKQDIYLV-EYSLSTSPFVRNRYTHVKDE---VRY-----EV 71
Db 1 MLRTLLRRRLFSYPTKYFWMVLVSLITFTSVLR---THQKPEFVSVRHLELAGENPSSDI 57
QY 72 NCSGYEOPLEIGK-----SLEIRRDIDLEDDVWMTSDCDIYQTLGVAQKLVS 125
Db 58 NCTKVLQGVNVEIQVKLEILTIVKFKRP--RWTDDYINMTSDCSSPIKRYIVEPLS 115
QY 126 KEKSPFIAYSLVVKDAIMVERLIHAIYNOHNYCIHYDRKADPTFKVAMNNAKCFSN 185
Db 116 KEAEFPFIAYSIIVVHHKIEMLDRLRLAIYMPQNFYCVHVDTKSEDSYLAAMVGIACFSN 175
QY 166 IFIASKLEAVYAHISRLQADNCLSLKSSIQWKYVNLCSQDPPLKSNFELVSELK 245
Db 176 VFAARLESVYASVRSVQADNCKDLYAMSNWKYLNLCQDPFPIKTNLEIVRKLK 235
QY 246 LKGNMLETVPKPSKLERFTYTHHELRRVPEYV--KLPIRTNISKEAPPNHQIFVSGA 303
Db 236 LMGENNLETMRPSKKEERM-----KKRYEVVNGKL-TNTGTVMQLPPLTLPFSGSA 287

QY 304 YFVLSSAFVKYIIPNNSIVQDPFAMSKDTYSDEHFWATLIRVGPGEISBSAQ-DVSDL 362
Db 288 YFVVSREYVGYVLQNEKIQKLMWAQDTYSDEYLNWATIQRIPEVPGSLPASHKIDLSDM 347
QY 363 QSKTRLVKWNYIEGFF-----YPSCTGSHLSRVCIYGAELRWLIKDGHWPFANKFDSKVD 417
Db 348 QAVARFVKQYFEGDVSKGAPYPCDGVHRSVCIFGAGDLNWLRLKHLFANKFDDVD 407
QY 418 PILIKCLAEKLEEQ 431
Db 408 LFAIQCLDEHLRHK 421
RESULT 3
US-08-227-455-4
; Sequence 4, Application US/08227455
; Patent No. 5624832
; GENERAL INFORMATION:
; APPLICANT: FUKUDA, MINORU
; APPLICANT: BIERHUIZEN, MARTI FA
; TITLE OF INVENTION: A NOVEL BETAL-6
; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTTRANSFERASE, ITS ACCEPTOR MOLECULE,
; TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
; TITLE OF INVENTION: ENZYMATIC ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/227,455
; FILING DATE: 14-APR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, CATHRYN
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9957
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-535-9001
; TELEFAX: 619-535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 428 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-227-455-4
Query Match 36.1%; Score 863.5; DB 1; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;
QY 28 LKLLNVRRLF--PKQDIYLV-EYSLSTSPFVRNRYTHVKDE---VRY-----EV 71
Db 1 MLRTLLRRRLFSYPTKYFWMVLVSLITFTSVLR---THQKPEFVSVRHLELAGENPSSDI 57
QY 72 NCSGYEOPLEIGK-----SLEIRRDIDLEDDVWMTSDCDIYQTLGVAQKLVS 125
Db 58 NCTKVLQGVNVEIQVKLEILTIVKFKRP--RWTDDYINMTSDCSSPIKRYIVEPLS 115
QY 126 KEKSPFIAYSLVVKDAIMVERLIHAIYNOHNYCIHYDRKADPTFKVAMNNAKCFSN 185
Db 116 KEAEFPFIAYSIIVVHHKIEMLDRLRLAIYMPQNFYCVHVDTKSEDSYLAAMVGIACFSN 175

QY 186 IFIASKLEAVEYAHISRLQADNCLSDLLKSGSIOWKVVINLCGODEFLKSNFELVSELKK 245
DB 176 VFAKLESVVTASRSRVQADNCKMDLYAMSANKYLINLCGMDFFPKINLEIVRKLK 235
QY 246 LAGANNLETVKPPNSKLERFTYHHELRRVPYEV--KLPIRTNISKAPPHNIQIFVGS 303
DB 236 LMGNNLETERMPHSHKEERW-----KKRYEVVNGKL-TNTGTVMKLPLETPFSGSA 287
QY 304 YFVLSQAFVKYIFNNSIVQDPFAWSKDTYSPDEHFWATLIRVPGIPEISRSQAQ-DVSD 362
DB 288 YFVRSREYVGYVLQNEKIQKLMWAQDTYSPDEYLWATIQRIPEVPGSLPASHKYDLSDM 347
QY 363 QSKTELKVNMYEGFF-----YPSCTGSHLSVCYIGAAELRWLIKDHFWANKFDSKVD 417
DB 348 QAVARFVKWQYFEGDVSKGAPYPCDGVHVRVSCIFGAGDLNMLRKHHLFANKFDVDVD 407
QY 418 PILIKLAELKEEQ 431
DB 408 LFAIOCLDEHLRHK 421
RESULT 4
US-08-472-482-4
; Sequence 4, Application US/08472482
; Patent No. 568778
; GENERAL INFORMATION:
; APPLICANT: FUKUDA, MINORU
; APPLICANT: BIERHUIZEN, MARTI FA
; TITLE OF INVENTION: A NOVEL BETAL-6
; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
; TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
; TITLE OF INVENTION: ENZYMAIC ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/472,482
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; FILING DATE: 01-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, CATHRYN
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9294
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-535-9001
; TELEFAX: 619-535-9049
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 428 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-472-482-4
Query Match 36.1%; Score 863.5; DB 1; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;
QY 28 LLKLLNVRLEF--PQKDIYLV-EYSLSTSPFVRNRYTHVKDE---VRY-----EV 71

DB 1 MLRTLLRRRLFSYPTKYFMVLVSLITPSVLR---IHQKPEFVSVRHLELAGENPSSDI 57
QY 72 NCSGIYQEPLEIGK-----SLEIRRRDIIDDDDDVAMTSDCDIYOTLRGYAQKIVS 125
DB 58 NCTVLQGDVNEIQKVKLEILTIVKFKRP--RWTDDYINMTSDCSSFIKRRKYIVEPLS 115
QY 126 KEKSFPIAYSLVVKDAIMVERLIHAIYNQHNICYIHVDKAPDTFKVAMNNLAKCFSN 185
DB 116 KEEAEFPIAYSIIVVHKLEIMLDRLLRAIYMPQFYCVHVDTKSEDSYLAAMVGIACFSN 175
QY 186 IFIASKLEAVEYAHISRLQADNCLSDLLKSGSIOWKVVINLCGODEFLKSNFELVSELKK 245
DB 176 VFAKLESVVTASRSRVQADNCKMDLYAMSANKYLINLCGMDFFPKINLEIVRKLK 235
QY 246 LAGANNLETVKPPNSKLERFTYHHELRRVPYEV--KLPIRTNISKAPPHNIQIFVGS 303
DB 236 LMGNNLETERMPHSHKEERW-----KKRYEVVNGKL-TNTGTVMKLPLETPFSGSA 287
QY 304 YFVLSQAFVKYIFNNSIVQDPFAWSKDTYSPDEHFWATLIRVPGIPEISRSQAQ-DVSD 362
DB 288 YFVRSREYVGYVLQNEKIQKLMWAQDTYSPDEYLWATIQRIPEVPGSLPASHKYDLSDM 347
QY 363 QSKTELKVNMYEGFF-----YPSCTGSHLSVCYIGAAELRWLIKDHFWANKFDSKVD 417
DB 348 QAVARFVKWQYFEGDVSKGAPYPCDGVHVRVSCIFGAGDLNMLRKHHLFANKFDVDVD 407
QY 418 PILIKLAELKEEQ 431
DB 408 LFAIOCLDEHLRHK 421
RESULT 5
US-08-487-069-4
; Sequence 4, Application US/08487069
; Patent No. 5684134
; GENERAL INFORMATION:
; APPLICANT: FUKUDA, MINORU
; APPLICANT: BIERHUIZEN, MARTI FA
; TITLE OF INVENTION: A NOVEL BETAL-6
; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
; TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
; TITLE OF INVENTION: ENZYMAIC ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,069
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/955,041
; FILING DATE: 01-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, CATHRYN
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9294
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-535-9001
; TELEFAX: 619-535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 428 amino acids
; TYPE: amino acid

00 NCIRVLDQSDVNETQKVAZUEIPIVATFANRF--KWI.FDDIINMI9DCC99FTANXNITVZEL9 1113

[illegible]

Db 58

【

Db 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIMVTHHHFDTFARLFRAYMPQNIYCVHDEK 129
QY 168 APTFKVAMNNAKCSNFIASKLEAVEYAHISLOADLNCISDLKSSIQWYVNL 227
Db 130 ATTEFKDAVEQLSCFPNAPLASKMEPVYGGISRLQADLNCIRDLSAFEVSWKYVINTC 189
QY 228 GQDFPLKSNFELVSELKCLNGANMLETVPKPNKLERFTY-HHELRRVPYEVYKLPRTN 286
Db 190 GQDFPLKTNKEIVQYLKGFKNITPGVLPFAHAIGRTKYVHQHGLKELSYV---IRTT 246
QY 287 ISKEAPPNIQIFVGSAYFVLSQAFVKYIFNNSIVQDFFAMSKOTYSPDEHFWATLRVP 346
Db 247 ALKPPPPHNLTIYFGSAYVALSREFANFVLHDPRAVDLLQWSKOTSPDEHFWATLRIP 306
QY 347 GIPGERSAQDVSLOKTRLVKNYVEGFFYPCSTGSHLRSVCYIGAAELRWLKDGH 406
Db 307 GVFGSMPNAS-----WTGNLRAIKWSMED-RHGGCHGHYVHGICVYNGDLKVLNPS 360
QY 407 WFANKFDSKVDPLIKCLAEKLEEQOR 433
Db 361 LFANKFELNTYPLTVECL--ELRHRER 385

RESULT 8

US-08-486-196-14
; Sequence 14, Application US/08486196
; Patent No. 5731420
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,196
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-486-196-14

Query Match 29.8%; Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred.No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;
QY 108 SDCDIYTLRGYAKLVSKEEKSFPLAYSLVHKDAIWMERLHAIYNQNIYCIHDK 167

Db 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIMVTHHHFDTFARLFRAYMPQNIYCVHDEK 129
QY 168 APTFKVAMNNAKCSNFIASKLEAVEYAHISRLQADLNCISDLKSSIQWYVNL 227
Db 130 ATTEFKDAVEQLSCFPNAPLASKMEPVYGGISRLQADLNCIRDLSAFEVSWKYVINTC 189
QY 228 GQDFPLKSNFELVSELKCLNGANMLETVPKPNKLERFTY-HHELRRVPYEVYKLPRTN 286
Db 190 GQDFPLKTNKEIVQYLKGFKNITPGVLPFAHAIGRTKYVHQHGLKELSYV---IRTT 246
QY 287 ISKEAPPNIQIFVGSAYFVLSQAFVKYIFNNSIVQDFFAMSKOTYSPDEHFWATLRVP 346
Db 247 ALKPPPPHNLTIYFGSAYVALSREFANFVLHDPRAVDLLQWSKOTSPDEHFWATLRIP 306
QY 347 GIPGERSAQDVSLOKTRLVKNYVEGFFYPCSTGSHLRSVCYIGAAELRWLKDGH 406
Db 307 GVFGSMPNAS-----WTGNLRAIKWSMED-RHGGCHGHYVHGICVYNGDLKVLNPS 360
QY 407 WFANKFDSKVDPLIKCLAEKLEEQOR 433
Db 361 LFANKFELNTYPLTVECL--ELRHRER 385

RESULT 9

US-08-488-135-14
; Sequence 14, Application US/08488135
; Patent No. 5766910
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,135
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-488-135-14

Query Match 29.8%; Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred.No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

Qy	108	SCDDYIQTJRGYAQKLVSKEEKSPFIAYSLVHKDAMTWERLTHAYINQNIYCIHYDRK	167
Db	70	SSCKEYLTOSHITAPLRSKEEADFFLAYIMVHHEFTFPARLFRAYMPONICYVDESK	129
Qy	168	APDFTKVMNNLAKFNSIFIASKEAEVAYAHISRLQADLNCISDLKSGSIOWKYVINLC	227
Db	130	ATTEFKDAVEQLSLSCFFPNAFLASKMEPVVYGGISRLQADLNCIRLDSAPFVSMKYVINTC	189
Qy	228	GODPPLKSNFELVSELKKNLNGANMLETVKPNSKLERFTY-HEHLRRVPYEVYKULPIRN	286
Db	190	GODFPLKTNKEIYQVLKGFKGKNTTPGVLPPAHAIGRTKYVQHEHGLKELSYV--IRVT	246
Qy	287	ISKEAPPNNIIQIFVGSAYFVLVSQAPVKYIFNNSIVQDFFAWSXDTYSPDEHFWATLIRVP	346
Db	247	ALKPPEPHNLTIYFGSAYVALSREFANFVLHDPRAVDLLQWSXDTSPDEHFWVTLNRIP	306
Qy	347	GIPGEISRSQAQVSDQLQKTRLVKNWYEGFFYSCGSHLRSVCLYGAERLWLIKQGH	406
Db	307	GVFGSMPNAS-----WTGNLRAIKWMDNE-RHGCGRHVHGICITYNGDCLKWLNVNSP	360
Qy	407	WFANKPDSKVDPIILKCLAEKLEBQOR	433
Db	361	LFANKFELNTYPLTVECL--ELRURER	385

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 ; Sequence 14, Application US/08474065
 ; Patent No. 5830465
 ; GENERAL INFORMATION:
 ; APPLICANT: Fukuda, Minoru
 ; APPLICANT: Bierhuizen, Marti F.A.
 ; TITLE OF INVENTION: Expression of the Developmental I
 ; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
 ; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell and Flores
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC Compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/474,065
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/118,906
 ; FILING DATE: 09-SEP-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Cathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-LJ 9526
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001
 ; TELEFAX: (619) 535-8949
 ; INFORMATION FOR SEQ ID NO: 14:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 400 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-08-474-065-14

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RESULT 11
US-09-233-506-4
; Sequence#, Application US/09233506
; Invent No., 618560
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Yeh, Jiumn-Chern
; TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms
; TITLE OF INVENTION: Core 2, Core 4 and I Branches
; FILE REFERENCE: P-IJ 3415
; CURRENT APPLICATION NUMBER: US/09/233,506
; CURRENT FILING DATE: 1999-01-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-233-506-4

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Query Match	29.8%;	Score 711;	DB 3;	Length 400;
Best Local Similarity	43.7%;	Pred. No. 3.8e-61;		
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QY	168	APDFPKVAMNNLAKCFGNIEFIASKLBAEYAHISRLQADLNCLSDLLKSSIQWKYVNLNC	227	
DB	130	ATTEKDAVEQLLSCFPNARFLASKMBPVYIGISRLQADLNCIRDLSAFESYWKYVNLNC	189	
QY	228	GODPPLKSNFELVSELKXLANGANMLFTVKPPNSKLFERTY-HHELRRVYPYVVKLPRTIN	286	
DB	190	GQDPFLKTKNEIKVQLXGPKGKNIITGVLPPAFAIGRTKYVHQEHLGKELSYV---IRTT	246	
QY	287	TSKGAAPHNTQIFVGSAYFVLSSAFVKYIFNNISIQDFFAMSKOTYSDEHFWATLLRVP	346	
DB	247	ALKGPPPHNTIYFGSAYVALSREFANFVLHDPRAVDLLQWSKOTFSDEHFWYTLNRIP	306	
QY	347	GIPGEISRSADQVSDLSQKTRLVKNNYHGGFFYPSGCTSHLRVSCVICYGAABRLMLIKDGH	406	
DB	307	GVFSGMPNAS-----WTGNLRALIKNSDMED-RHGCGCHYVHGICIVNGDKLWLVNSPS	360	
QY	407	WFANKFDSKYDPIILIKLAEKLEBQOR	433	
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; Sequence 4, Application US/08118906
; Patent No. 5484590
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 09-SEP-1993
; APPLICATION NUMBER: US/08/118,906
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION/DOCKET NUMBER: P-LJ 9526
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-118-906-4
Query Match 16.0%; Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8.2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;
QY 119 YAKLVSKKEKSPFIAYSLVHVKDAIMVERLTHAIYNQNIYCIHYDRKAPDTFKVAMNN 178
Db 1 YIVEPLSKKEAEFFIAYSLVHVKIEMLDRLRLAIYMPQNFYCVHVDTKSEDSYLAAMVG 60
QY 179 LAKCFNFIASIKLEAVEYAHISRLQADLNCGLDLKSSIQWKYVNLGQDPFLKSNFE 238
Db 61 IASCFNFIASIKLEAVEYAHISRLQADLNCGLDLKSSIQWKYVNLGQDPFLKSNFE 238
QY 239 LVSELK 244
Db 121 IVRLK 126
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; Sequence 4, Application US/08486196
; Patent No. 5731420
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25

ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,196
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 126 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-486-196-4
Query Match 16.0%; Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8.2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;
QY 119 YAKLVSKKEKSPFIAYSLVHVKDAIMVERLTHAIYNQNIYCIHYDRKAPDTFKVAMNN 178
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QY 239 LVSELK 244
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; Sequence 4, Application US/08488135
; Patent No. 5766910
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bierhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
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; COMPUTER: IBM PC compatible
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; SOFTWARE: Patent in Release #1.0, Version #1.25

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; ; CURRENT APPLICATION DATA:
; ; APPLICATION NUMBER: US/08/488,135
; ; FILING DATE:
; ; CLASSIFICATION: 424
; ; PRIOR APPLICATION DATA:
; ; APPLICATION NUMBER: US 08/118,906
; ; FILING DATE: 09-SEP-1993
; ; ATTORNEY/AGENT INFORMATION:
; ; NAME: Campbell, Cathryn A.
; ; REGISTRATION NUMBER: 31,815
; ; REFERENCE/DOCKET NUMBER: P-LJ 9526
; ; TELECOMMUNICATION INFORMATION:
; ; TELEPHONE: (619) 535-9001
; ; TELEFAX: (619) 535-8949
; ; INFORMATION FOR SEQ ID NO: 4:
; ; SEQUENCE CHARACTERISTICS:
; ; LENGTH: 126 amino acids
; ; TYPE: amino acid
; ; TOPOLOGY: linear
; ; MOLECULE TYPE: protein
; ; US-08-488-135-4
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; ; Query Match 16.0%; Score 380
; ; Best Local Similarity 54.8%; Pred. No.
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; ; Sequence 4, Application US/08474065
; ; Patent No. 5830465
; ; GENERAL INFORMATION:
; ; APPLICANT: Fukuda, Minoru
; ; TITLE OF INVENTION: Expression of the
; ; TITLE OF INVENTION: Antigen By a Clo
; ; TITLE OF INVENTION: Beta-1,6-N-Acety
; ; NUMBER OF SEQUENCES: 14
; ; CORRESPONDENCE ADDRESS:
; ; ADDRESSEE: Campbell and Flores
; ; STREET: 4370 La Jolla Village Drive
; ; CITY: San Diego
; ; STATE: California
; ; COUNTRY: USA
; ; ZIP: 92122
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; ; COMPUTER READABLE FORM:
; ; MEDIUM TYPE: Floppy disk
; ; COMPUTER: IBM PC compatible
; ; OPERATING SYSTEM: PC-DOS/MS-DOS
; ; SOFTWARE: Patent In Release #1.0, V
; ; CURRENT APPLICATION DATA:
; ; APPLICATION NUMBER: US/08/474,065
; ; FILING DATE:
; ; CLASSIFICATION: 424
; ; PRIOR APPLICATION DATA:
; ; APPLICATION NUMBER: US 08/118,906
; ; FILING DATE: 09-SEP-1993
; ; ATTORNEY/AGENT INFORMATION:
; ; NAME: Campbell, Cathryn A.
; ; REGISTRATION NUMBER: 31,815
; ; REFERENCE/DOCKET NUMBER: P-LJ 9526

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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-474-065-4

Query Match 16.0%; Score 383; DB 2; Length 126;
Best Local Similarity 54.8%; Pred. No. 8.2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

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QY 179 LAKCFNSIFTIASLEAEVYAHIRLQADNCLSLDKSLKSIQWKYVINLCGDFPLKSNFE 238
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Db 61 IASCFSNVVFASRLSESVVASWSRVQADLNCMKDLVYASANKYILNLCGVDFFIKTNLE 120

QY 239 LVSEIK 244
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Db 121 IVRLK 126

Search completed: January 30, 2004, 12:59:00
Job time : 22 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 30, 2004, 12:55:31 ; Search time 40 Seconds
(without alignments)
2353.608 Million cell updates/sec

Title: US-10-084-406-2
Perfect score: 2389
Sequence: 1 MKIPKCYFKHTLQOKVFLF.....DWITLPSEKLFMDRLNLTTS 453

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 789580 seqs, 207824079 residues

Total number of hits satisfying chosen parameters: 789580

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1985.5	83.1	455	9	US-09-793-998-8
5	868	36.3	438	9	US-09-874-390-2
6	868	36.3	438	9	US-09-797-207-2
7	868	36.3	438	10	US-09-981-353-44
8	868	36.3	438	12	US-10-388-307-15
9	868	36.3	438	15	US-10-084-406-15
10	868	36.3	465	15	US-10-106-698-5832
11	868	36.3	663	9	US-09-797-207-4
12	866	36.2	465	9	US-09-925-297-796
13	863.5	36.1	428	9	US-09-797-207-14
14	863.5	36.1	428	12	US-10-388-307-13
15	863.5	36.1	428	15	US-10-084-406-13

16	862	36.1	406	9	US-09-797-207-9	Sequence 9, Appli
17	856.5	35.9	437	9	US-09-797-207-20	Sequence 20, Appl
18	711	29.8	400	12	US-10-388-307-17	Sequence 17, Appl
19	711	29.8	400	15	US-10-084-406-17	Sequence 17, Appl
20	609	25.5	237	9	US-09-793-998-2	Sequence 2, Appli
21	362	15.2	120	12	US-10-029-386-30717	Sequence 30717, A
22	285	11.9	145	12	US-10-108-260A-4764	Sequence 4764, Ap
23	213.5	9.2	865	12	US-10-347-470A-16	Sequence 16, Appl
24	213.5	8.9	827	12	US-10-347-470A-16	Sequence 16, Appl
25	174	7.3	57	12	US-10-029-386-28898	Sequence 15, Appl
26	160	6.7	806	12	US-10-347-470A-15	Sequence 15, Appl
27	116	4.9	895	12	US-10-369-493-1036	Sequence 1036, Ap
28	113.5	4.8	794	12	US-10-304-095-8	Sequence 8, Appli
29	109	4.6	74	9	US-09-864-761-35468	Sequence 35468, A
30	108.5	4.5	661	10	US-09-801-368-422	Sequence 422, App
31	107	4.5	62	12	US-10-029-385-23620	Sequence 23620, A
32	107	4.5	1089	12	US-10-369-493-2154	Sequence 2154, Ap
33	102.5	4.3	821	12	US-10-394-322A-27	Sequence 27, Appl
34	100.5	4.2	665	12	US-10-130-973A-9	Sequence 9, Appli
35	100.5	4.2	882	12	US-10-130-973A-3	Sequence 3, Appli
36	100.5	4.2	907	12	US-10-130-973A-5	Sequence 5, Appli
37	100.5	4.2	2184	12	US-10-304-095-6	Sequence 6, Appli
38	100	4.2	439	10	US-09-866-572A-68	Sequence 68, Appl
39	100	4.2	439	10	US-09-866-570A-68	Sequence 68, Appl
40	100	4.2	439	12	US-10-166-984-68	Sequence 68, Appl
41	100	4.2	439	15	US-10-166-984-68	Sequence 68, Appl
42	98	4.1	407	15	US-10-169-048-30	Sequence 30, Appl
43	97.5	4.1	469	12	US-10-452-024-182	Sequence 182, App
44	97.5	4.1	573	12	US-10-452-024-177	Sequence 177, App
45	97.5	4.1	634	12	US-10-369-493-13867	Sequence 13867, A

ALIGNMENTS

RESULT 1
US-10-388-307-2
; Sequence 2, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwiensek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GLCNAC
; TITLE OF INVENTION: to Galnac) beta1,6-N-Acetylglucosamineyltransferase, C2GNT3
; FILE REFERENCE: 4503/IG031
; CURRENT APPLICATION NUMBER: US/10/388,307
; PRIOR FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US/09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Human
US-10-388-307-2

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Qy 181 KCFSNIFIASKLEAVEYAHISRLQADNCLSLKSSIQWKVYNLCQDPPKSNFELV 240
Db 181 KCFSNIFIASKLEAVEYAHISRLQADNCLSLKSSIQWKVYNLCQDPPKSNFELV 240
Qy 241 SELKKGANMLETVPKPNKLERFTYHHLRRVYEVYKLPRTNISKAPPHNIQIFV 300
Db 241 SELKKGANMLETVPKPNKLERFTYHHLRRVYEVYKLPRTNISKAPPHNIQIFV 300
Qy 301 GSAYFVLSQAFVKYIFNNSIVQDFPFWSKDTYSPDEHFWATLIRVPGIPGBISRSADVS 360
Db 301 GSAYFVLSQAFVKYIFNNSIVQDFPFWSKDTYSPDEHFWATLIRVPGIPGBISRSADVS 360
Qy 361 DLOSKTRLVKWNYEGFFYPSCITGSHLSRVCIYGAELRWLIKDHWFANKFDSKVDPI 420
Db 361 DLOSKTRLVKWNYEGFFYPSCITGSHLSRVCIYGAELRWLIKDHWFANKFDSKVDPI 420
Qy 421 IKCLAEKLEEQORDWITLPSKLFMDRLNTTTS 453
Db 421 IKCLAEKLEEQORDWITLPSKLFMDRLNTTTS 453

RESULT 2
US-10-084-406-2
; Sequence 2, Application US/10084406
; Publication No. US20030054525A1
; GENERAL INFORMATION:
; APPLICANT: Schwiendek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GlcNAc
; TITLE OF INVENTION: to GalNAc) beta1,6-N-Acetylglucosaminyltransferase, C2Gnt3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/084, 406
; CURRENT FILING DATE: 2002-02-25
; PRIOR FILING DATE: 09/645,192
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Human
US-10-084-406-2

Query Match 100.0%; Score 2389; DB 15; Length 453;
Best Local Similarity 100.0%; Pred. No. 3.9e-219;
Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIFKCYFHTLQOKVFILFLTLWLLSLKLNVRLLFPQKDIYLVVEYSLSTSPFVRNRY 60
Db 1 MKIFKCYFHTLQOKVFILFLTLWLLSLKLNVRLLFPQKDIYLVVEYSLSTSPFVRNRY 60
Qy 61 THVKDEVRYVNCSGIYEQEPLEIGKSLRIRDDIIDLDDDDVWMTSDCDIYQTLRGYA 120
Db 61 THVKDEVRYVNCSGIYEQEPLEIGKSLRIRDDIIDLDDDDVWMTSDCDIYQTLRGYA 120
Qy 121 QKLVSKKEKSPPIAYSLVVKDAIMVERLIHAIYNQHNIIYCHYDRKAPDTFKVAMNLA 180
Db 121 QKLVSKKEKSPPIAYSLVVKDAIMVERLIHAIYNQHNIIYCHYDRKAPDTFKVAMNLA 180
Qy 181 KCFSNIFIASKLEAVEYAHISRLQADNCLSLKSSIQWKVYNLCQDPPKSNFELV 240
Db 181 KCFSNIFIASKLEAVEYAHISRLQADNCLSLKSSIQWKVYNLCQDPPKSNFELV 240
Qy 241 SELKKGANMLETVPKPNKLERFTYHHLRRVYEVYKLPRTNISKAPPHNIQIFV 300
Db 241 SELKKGANMLETVPKPNKLERFTYHHLRRVYEVYKLPRTNISKAPPHNIQIFV 300
Qy 301 GSAYFVLSQAFVKYIFNNSIVQDFPFWSKDTYSPDEHFWATLIRVPGIPGBISRSADVS 360

Db 301 GSAYFVLSQAFVKYIFNNSIVQDFPFWSKDTYSPDEHFWATLIRVPGIPGBISRSADVS 360
Qy 361 DLOSKTRLVKWNYEGFFYPSCITGSHLSRVCIYGAELRWLIKDHWFANKFDSKVDPI 420
Db 361 DLOSKTRLVKWNYEGFFYPSCITGSHLSRVCIYGAELRWLIKDHWFANKFDSKVDPI 420
Qy 421 IKCLAEKLEEQORDWITLPSKLFMDRLNTTTS 453
Db 421 IKCLAEKLEEQORDWITLPSKLFMDRLNTTTS 453

RESULT 3
US-09-793-998-11
; Sequence 11, Application US/09793998
; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: LEW, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 1104
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-793-998-11

Query Match 100.0%; Score 2389; DB 9; Length 1104;
Best Local Similarity 100.0%; Pred. No. 1.5e-218;
Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIFKCYFHTLQOKVFILFLTLWLLSLKLNVRLLFPQKDIYLVVEYSLSTSPFVRNRY 60
Db 273 MKIFKCYFHTLQOKVFILFLTLWLLSLKLNVRLLFPQKDIYLVVEYSLSTSPFVRNRY 332
Qy 61 THVKDEVRYVNCSGIYEQEPLEIGKSLRIRDDIIDLDDDDVWMTSDCDIYQTLRGYA 120
Db 333 THVKDEVRYVNCSGIYEQEPLEIGKSLRIRDDIIDLDDDDVWMTSDCDIYQTLRGYA 392
Qy 121 QKLVSKKEKSPPIAYSLVVKDAIMVERLIHAIYNQHNIIYCHYDRKAPDTFKVAMNLA 180
Db 393 QKLVSKKEKSPPIAYSLVVKDAIMVERLIHAIYNQHNIIYCHYDRKAPDTFKVAMNLA 452
Qy 181 KCFSNIFIASKLEAVEYAHISRLQADNCLSLKSSIQWKVYNLCQDPPKSNFELV 240
Db 453 KCFSNIFIASKLEAVEYAHISRLQADNCLSLKSSIQWKVYNLCQDPPKSNFELV 512
Qy 241 SELKKGANMLETVPKPNKLERFTYHHLRRVYEVYKLPRTNISKAPPHNIQIFV 300
Db 513 SELKKGANMLETVPKPNKLERFTYHHLRRVYEVYKLPRTNISKAPPHNIQIFV 572
Qy 301 GSAYFVLSQAFVKYIFNNSIVQDFPFWSKDTYSPDEHFWATLIRVPGIPGBISRSADVS 360
Db 573 GSAYFVLSQAFVKYIFNNSIVQDFPFWSKDTYSPDEHFWATLIRVPGIPGBISRSADVS 632
Qy 361 DLOSKTRLVKWNYEGFFYPSCITGSHLSRVCIYGAELRWLIKDHWFANKFDSKVDPI 420
Db 633 DLOSKTRLVKWNYEGFFYPSCITGSHLSRVCIYGAELRWLIKDHWFANKFDSKVDPI 692
Qy 421 IKCLAEKLEEQORDWITLPSKLFMDRLNTTTS 453
Db 693 IKCLAEKLEEQORDWITLPSKLFMDRLNTTTS 725

RESULT 4
US-09-793-998-8
; Sequence 8, Application US/09793998

```
; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: LEW, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-15
; CURRENT APPLICATION NUMBER: US/09/793,998
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Mus sp.
; US-09-793-998-8

Query Match      83.1%; Score 1985.5; DB 9; Length 455;
Best Local Similarity 82.8%; Pred. No. 1.3e-180;
Matches 370; Conservative 35; Mismatches 41; Indels 1; Gaps 1;

QY 1 MKIFKCYKHTLOOKRPFILFLMLLSLLKLVN-RLFPQKDIYLYVEYSLSSTPFVNR 59
DB 1 MKIFRCCKYTLQKKLFILLLLTLFSLKLVNGLLLFPQKDIYLYVEYSLSSTPFVNR 60
QY 60 YTHVDEVEYVNCSDIYBOEPLKSLKLEIRRRDIIDLEDDVVAMTSDCDIYQTLRGY 119
DB 61 FPESGAARDNVNCSGVYEHEPLEIGKSLKLEIRRRDIIDLEDDVVAMTSDCDIYQTLRGY 120
QY 120 AQKLSKEBKSPIAYSLVHVDKAIWVERLIHAIYNOHNIYCIHYDRKAPDTFKVAMNVL 179
DB 121 HEKLVSRREEDPPIAYSLVHVDKAIWVERLIHAIYNOHNIYCIHYDRKAPDTFKVAMNVL 180
QY 180 AKCFNFIASLEAVEYAHISLQADNCLSDLLKSSIQWKYVNLGQDPFLKSNFEL 239
DB 181 AKCFNFIASLEAVEYAHISLQADNCLSDLLKSSIQWKYVNLGQDPFLKSNFEL 240
QY 240 VSELKLVNANMLKTVKPPNSKLEFTHYHLLRVPEYVVKLPRTNISKAPPHNIQIF 299
DB 241 VTLESLQGRNMLKTVKPPNSKLEFTHYHLLRVPEYVVKLPRTNISKAPPHNIQIF 300
QY 300 VGSAYFVLSSQAFVKYIENNSIVQDFPANSKDTYSPDEHFWATLIRVPGISRSADY 359
DB 301 VGSAYFVLSSQAFVKYIENNSIVQDFPANSKDTYSPDEHFWATLIRVPGISRSADY 360
QY 360 SLDQSKTRLVKNNYEGFPYPCSTGSHLSRVCYIGAAELRWLIXDGHFWANKFDSKVDPI 419
DB 361 SLDQSKTRLVKNNYEGFPYPCSTGSHLSRVCYIGAAELRWLIXDGHFWANKFDSKVDPI 420
QY 420 LKCLAEKLEEQORDWITLPSKLFMD 446
DB 421 LKCLAEKLEEQORDWITLPSKLFMD 447

RESULT 5
US-09-874-390-2
; Sequence 2, Application US/09874390
; Patent No. US20020081656A1
; GENERAL INFORMATION:
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UDP-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta-1,3-N-Acetylglucosamine-alpha-R /
; TITLE OF INVENTION: N-Acetylglucosamine-beta-1,3-N-Acetylglucosamine-alpha
; TITLE OF INVENTION: a-R (GlcNAc to GalNAc)
; TITLE OF INVENTION:
; FILE REFERENCE: P199801704 WO JNY
; CURRENT APPLICATION NUMBER: US/09/874,390
; PRIOR FILING DATE: 2001-06-04
; PRIOR APPLICATION NUMBER: DK PA 1998 01605
; PRIOR FILING DATE: 1998-12-04
; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: amino acid
; US-09-797-207-2

Query Match      36.3%; Score 868; DB 9; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-874-390-2

Query Match      36.3%; Score 868; DB 9; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLLSLLKLVN-----RRLFPQKDIYLYVEYSLSSTPFVNR-RYTHVDEVEYVNCSDIY 75
DB 13 LMLGCVMLLATVALKLSFLKCDSDHGLGLESSESQYCRNLIYNFLKLPKRSINCSG 72
QY 76 IY--EDEL--EIGKSLKLEIRRRDIIDLEDDVVAMTSDCDIYQTLRGYAKLVSKKEKSP 131
DB 73 VTRGQEAVALQAIINNVKVKR-BPFTDTHYLSLFRDCEHFAERKFIQFPLSKVEVF 131
QY 132 PIAYSLVHVDKAIWVERLIHAIYNOHNIYCIHYDRKAPDTFKVAMNVLAKCFNFIAS 191
DB 132 PIAYSMVIEHKEINFERLLRAVYAPQNIYCVHDEKSPETFEKAVKAIISCFPNVFIASK 191
QY 132 LEAVEYAHISLQADNCLSDLLKSSIQWKYVNLGQDPFLKSNFELVSELKLVNANML 251
DB 132 LVRVYASWSRQVADNCLMEDLLQSSVPWKYFLNCTGTFPIKSNAMVQALKLVNANML 251
QY 252 LETVKNPNSKLEFTHYHLLRVPEYVVKLPRTNISKAPPHNIQIFVGSAYFVLSSQAF 311
DB 252 MESEVPPKHETRWKHYFEVVR---DTLHL---TNKKDPPPNLTMTFTGNAYIVASRDF 305
QY 312 VKYIENNSIVQDFPANSKDTYSPDEHFWATLIRVPGISRSADYSDLSQSKTRLVK 370
DB 306 VQHVLIKPNKSQLLEWYKDTYSPDEHFWATLIRVPGISRSADYSDLSQSKTRLVK 365
QY 371 WNYEGEPF---YPSCTGSHLSRVCYIGAAELRWLIXDGHFWANKFDSKVDPIILKCLA 425
DB 366 WQEGHEDIDKAPYAPCSGTHQRAICVYGAGDNLNWLQNHLLANKFDPKVDNALQCL 425
QY 426 EKL 428
DB 426 EYL 428

RESULT 6
US-09-797-207-2
; Sequence 2, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; CURRENT FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: amino acid
; US-09-797-207-2

Query Match      36.3%; Score 868; DB 9; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;
```

QY 23 LMLSLKLLNV-----RRLFPQKDIYLVESLSTSPFVRN-RYTHVKDEVRYEVCNSG 75
DB 13 LVALGCYMLLATVALKLSFLKCDSDHLGLESRESQSOYCRNLYNFKLPKAGRSINCSG 72
QY 76 IY--EQEPL--EIGKSLERRRDIIIDLEDDVVVAMTSDCDIYQTLRGVQAOKLVSKKEKSP 131
DB 73 VTRGDQEAVALQAILNNLEVKKKR-EPTDTHVLSLTRDCEHFAKPKFIQPLSKKEVEP 131
QY 132 PIAYSLVHKDAIWMERLIIHAIYQNHQNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFTASK 191
DB 132 PIAYSMVIEHKEIFERLIIHAIYQNHQNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFTASK 191
QY 192 LEAVEYAHISRLQADNCLSLDKLSIQWKNYINLCQDFFPLKSNFELVSELKXKLANGNM 251
DB 192 LVRVYASWSRVQADNCLMCDLQSSVPWKYFLNTCTGTFPIKSNAMVQALKXLANGNM 251
QY 252 LETVKPPNSKLERFTYHHELRVVEYVKLPRTNISKAPPHNIQIFVGSAYFVLQSAF 311
DB 252 MESEVPPKHETRWKHYFEVVR---DTLHL---TNKKDPPPYNLMTFTGNAYIVASRDF 305
QY 312 VKYIFNNSIVQDFFAWSKDTYSPDEHFWATLIRVPGIPGEI-SRSAQDVSDLOSKTRLVK 370
DB 306 VOHLVKNPKSQQLIEWKDTYSPDEHFWATLIRVPGIPGEI-SRSAQDVSDLOSKTRLVK 365
QY 371 WNYIEGFF-----YPSCTGSHLRVSVCIYGAALRWLKDGHFWFANKFDSKYDPIILKCLA 425
DB 366 WQHGEGDIDKGAFCGSIHQRAICVYGAGDLNWLQNHLLANKFDPKVDNLAQCLE 425
QY 426 EKL 428
DB 426 EYL 428

RESULT 7

US-09-981-353-44
; Sequence 44, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Laesk, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 44
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 2921009CD1
US-09-981-353-44

Query Match 36.3%; Score 868; DB 10; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLSLKLLNV-----RRLFPQKDIYLVESLSTSPFVRN-RYTHVKDEVRYEVCNSG 75
DB 13 LVALGCYMLLATVALKLSFLKCDSDHLGLESRESQSOYCRNLYNFKLPKAGRSINCSG 72
QY 76 IY--EQEPL--EIGKSLERRRDIIIDLEDDVVVAMTSDCDIYQTLRGVQAOKLVSKKEKSP 131
DB 73 VTRGDQEAVALQAILNNLEVKKKR-EPTDTHVLSLTRDCEHFAKPKFIQPLSKKEVEP 131
QY 132 PIAYSLVHKDAIWMERLIIHAIYQNHQNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFTASK 191
DB 132 PIAYSMVIEHKEIFERLIIHAIYQNHQNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFTASK 191
QY 192 LEAVEYAHISRLQADNCLSLDKLSIQWKNYINLCQDFFPLKSNFELVSELKXKLANGNM 251

DB 192 LVRVYASWSRVQADNCLMCDLQSSVPWKYFLNTCTGTFPIKSNAMVQALKXLANGNM 251
QY 252 LETVKPPNSKLERFTYHHELRVVEYVKLPRTNISKAPPHNIQIFVGSAYFVLQSAF 311
DB 252 MESEVPPKHETRWKHYFEVVR---DTLHL---TNKKDPPPYNLMTFTGNAYIVASRDF 305
QY 312 VKYIFNNSIVQDFFAWSKDTYSPDEHFWATLIRVPGIPGEI-SRSAQDVSDLOSKTRLVK 370
DB 306 VOHLVKNPKSQQLIEWKDTYSPDEHFWATLIRVPGIPGEI-SRSAQDVSDLOSKTRLVK 365
QY 371 WNYIEGFF-----YPSCTGSHLRVSVCIYGAALRWLKDGHFWFANKFDSKYDPIILKCLA 425
DB 366 WQHGEGDIDKGAFCGSIHQRAICVYGAGDLNWLQNHLLANKFDPKVDNLAQCLE 425
QY 426 EKL 428
DB 426 EYL 428

RESULT 8

US-10-388-307-15
; Sequence 15, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Clausen, Henrik
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GlcNAc
; TITLE OF INVENTION: to galNAc) beta1,6-N-Acetylglucosamineyltransferase, C2GnT3
; FILE REFERENCE: 4503/IG031
; CURRENT APPLICATION NUMBER: US/10/388,307
; CURRENT FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US/09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Human
US-10-388-307-15

Query Match 36.3%; Score 868; DB 12; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLSLKLLNV-----RRLFPQKDIYLVESLSTSPFVRN-RYTHVKDEVRYEVCNSG 75
DB 13 LVALGCYMLLATVALKLSFLKCDSDHLGLESRESQSOYCRNLYNFKLPKAGRSINCSG 72
QY 76 IY--EQEPL--EIGKSLERRRDIIIDLEDDVVVAMTSDCDIYQTLRGVQAOKLVSKKEKSP 131
DB 73 VTRGDQEAVALQAILNNLEVKKKR-EPTDTHVLSLTRDCEHFAKPKFIQPLSKKEVEP 131
QY 132 PIAYSLVHKDAIWMERLIIHAIYQNHQNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFTASK 191
DB 132 PIAYSMVIEHKEIFERLIIHAIYQNHQNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFTASK 191
QY 192 LEAVEYAHISRLQADNCLSLDKLSIQWKNYINLCQDFFPLKSNFELVSELKXKLANGNM 251
DB 192 LVRVYASWSRVQADNCLMCDLQSSVPWKYFLNTCTGTFPIKSNAMVQALKXLANGNM 251
QY 252 LETVKPPNSKLERFTYHHELRVVEYVKLPRTNISKAPPHNIQIFVGSAYFVLQSAF 311
DB 252 MESEVPPKHETRWKHYFEVVR---DTLHL---TNKKDPPPYNLMTFTGNAYIVASRDF 305
QY 312 VKYIFNNSIVQDFFAWSKDTYSPDEHFWATLIRVPGIPGEI-SRSAQDVSDLOSKTRLVK 370
DB 306 VOHLVKNPKSQQLIEWKDTYSPDEHFWATLIRVPGIPGEI-SRSAQDVSDLOSKTRLVK 365

QY 371 WNYEGFF-----YPSCTGSHLRSVCYGAELRWLKGHWHPANKEDSKVDPIILKCLA 425
Db 366 WQHGEGDIDKGAPYAPCSGIHQRAICVYGAGDLNWLQNHLLANKFDPKVDNALQCLE 425
QY 426 EKL 428
Db 426 EYL 428

RESULT 9
US-10-084-406-15
; Sequence 15, Application US/10084406
; Publication No. US20030054525A1
; GENERAL INFORMATION:
; APPLICANT: Schwiientek, Tilo
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GlcVAC
; TITLE OF INVENTION: to GalNAc) beta1,6-N-Acetylglucosamineyltransferase, C2GNT3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/084,406
; PRIOR FILING DATE: 2002-03-25
; PRIOR FILING DATE: 2000-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 438
; TYPE: PRF
; ORGANISM: Human
US-10-084-406-15

Query Match 36.3%; Score 868; DB 15; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LWLSLLKLLNV-----RRLFPQKDIYLVYSLSSTSPFVRN-RYTHVKDEVRYEVNCSG 75
Db 13 LWALGCMYLLATVALKLFRLKCDSDHGLGLESRSOSQYCRNLYNFKLPKRSINCSG 72
QY 76 IY--EQEPL--EIGKSLRIRRDIDLEDDVVAMTSDCDIYQTLRGYAQKLVSKEEKF 131
Db 73 VTRGDQEAVALQAILNNLEVKKKR-EPFTDTHYLSLTRDCEHFKAERKFIQFPLSKEEVEF 131
QY 132 PIAYSLVHKDAIMVERLHAIYNQNNIYCHYDRKADPTFKVAMNNAKCFNFIASK 191
Db 132 PIAYSMVTHEKIENFERLLRAYAPQNIYCVHDEKSPETFEAKVAKAIISCFPNVFIASK 191
QY 192 LEAVEYAHISRLOADNLCLSDLLKSSIQWKYVINLCQDPFLKSNFELVSELKKGANM 251
Db 192 LVVVYASRSRVQADLNCMEDLLQSSVPWKYFLNTGCTDFFPKSNAEMVQALKMLNGNS 251
QY 252 LETVKPNSKLERFTHYHLLRVPEYVKLPRTNISKAPPHNIQIFVGSAYFVLSQAF 311
Db 252 MESEVPKHKETRWKYHFEVVR---DTLHL---TNKKDPPPPYNTLFTGNAYIVASRDF 305
QY 312 VKYIFNNSIVQDFPFAWSKDTYSPDEHFWATLIRVPGIGBI-SRSAQDVSDLOSKEVLVK 370
Db 306 VQHLVKPKSQQLIEWKDTYSPDEHFWATLIRVPGIGBI-SRSAQDVSDLOSKEVLVK 365
QY 371 WNYEGFF-----YPSCTGSHLRSVCYGAELRWLKGHWHPANKEDSKVDPIILKCLA 425
Db 366 WQHGEGDIDKGAPYAPCSGIHQRAICVYGAGDLNWLQNHLLANKFDPKVDNALQCLE 425
QY 426 EKL 428
Db 426 EYL 428

RESULT 10
US-10-106-698-5832
; Sequence 5832, Application US/10106698
; Publication No. US20030109690A1

GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptid
; FILE REFERENCE: PA00591
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 5832
; LENGTH: 465
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-106-698-5832

Query Match 36.3%; Score 868; DB 15; Length 465;
Best Local Similarity 43.0%; Pred. No. 5.7e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LWLSLLKLLNV-----RRLFPQKDIYLVYSLSSTSPFVRN-RYTHVKDEVRYEVNCSG 75
Db 40 LWALGCMYLLATVALKLFRLKCDSDHGLGLESRSOSQYCRNLYNFKLPKRSINCSG 99
QY 76 IY--EQEPL--EIGKSLRIRRDIDLEDDVVAMTSDCDIYQTLRGYAQKLVSKEEKF 131
Db 100 VTRGDQEAVALQAILNNLEVKKKR-EPFTDTHYLSLTRDCEHFKAERKFIQFPLSKEEVEF 158
QY 132 PIAYSLVHKDAIMVERLHAIYNQNNIYCHYDRKADPTFKVAMNNAKCFNFIASK 191
Db 159 PIAYSMVTHEKIENFERLLRAYAPQNIYCVHDEKSPETFEAKVAKAIISCFPNVFIASK 218
QY 192 LEAVEYAHISRLOADNLCLSDLLKSSIQWKYVINLCQDPFLKSNFELVSELKKGANM 251
Db 219 LVVVYASRSRVQADLNCMEDLLQSSVPWKYFLNTGCTDFFPKSNAEMVQALKMLNGNS 278
QY 252 LETVKPNSKLERFTHYHLLRVPEYVKLPRTNISKAPPHNIQIFVGSAYFVLSQAF 311
Db 279 MESEVPKHKETRWKYHFEVVR---DTLHL---TNKKDPPPPYNTLFTGNAYIVASRDF 332
QY 312 VKYIFNNSIVQDFPFAWSKDTYSPDEHFWATLIRVPGIGBI-SRSAQDVSDLOSKEVLVK 370
Db 333 VQHLVKPKSQQLIEWKDTYSPDEHFWATLIRVPGIGBI-SRSAQDVSDLOSKEVLVK 392
QY 371 WNYEGFF-----YPSCTGSHLRSVCYGAELRWLKGHWHPANKEDSKVDPIILKCLA 425
Db 393 WQHGEGDIDKGAPYAPCSGIHQRAICVYGAGDLNWLQNHLLANKFDPKVDNALQCLE 452
QY 426 EKL 428
Db 453 EYL 455

RESULT 11
US-09-797-207-4
; Sequence 4, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; CURRENT FILING DATE: 2001-03-02
; EARLIER FILING DATE: 2000-09-13
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 4

; LENGTH: 663

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Recombinant

; OTHER INFORMATION: amino acid

US-09-797-207-4

Query Match

Best Local Similarity 36.3%; Score 869; DB 9; Length 663;

Mismatches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

23 LWLLNLKLVN-----RLFPQDIYLVESLSTSPFVN-RYTHVKDEVREYVNCSSG 75

Db 97 LWALGCYMLLATVALKLSFRLKCDSDHIGLESRESQSQCERNILYNFLKLPKRSINCSG 156

QY 76 IY--EQEPL--EIGKSLERIRRDIIIDLEDDVVAMTSCDIYQTLRGYAQKLVKEEKSFP 131

Db 157 VTRGQEAVALQAILNNLEVKKR--EPFTDTHYLSLRDCEHFAERKFIQFPLSKEVEF 215

QY 132 PLAYSLVVHKDAIMVERLIHAIYNOHNIYCIHYDRKAPDTFKVAMNNLAKCFSPNFIASK 191

Db 216 PLAYSMVIEKTEINFERLLRAVAPQNIYCVHDEKSPETFEKAVKAIISCPNFIASK 275

QY 192 LEAVEYAHISRLQADLNCLSDLLKSSIQWKYVINLCGQDFPLKSNFELVSELKCLNGANM 251

Db 276 LVRVYASWSRVQADLNCLMEDLLQSSVPWKYFLNTCGTDFPKISNAEMVQALKMLNGRNS 335

QY 252 LETVKPNSKLERFTYHHLRVRVYEVKLPRTNISKEAPPNIQIFVGSAYFVLQAP 311

Db 336 MESEVPPKHETRWKYHFEVVR---DTLHL---TNKKDPPPNLTMTGNAVIVASRDF 389

QY 312 VKYIFNNSIVQDFPFWASKDTYSPDEHFWATLIRVPGIGEI--SRSAQDVSDLOSKTRLVK 370

Db 390 VQHVLPKPKSQQLIEWVKTYSPDEHLWATLQARWMPGSPVNPHPKIDISMTSIARLVK 449

QY 371 WNYVEGFF-----YPSCTGSHRSVCYIGAEELRLIKDGHWFANKFDSKVDPIILKCLA 425

Db 450 WQHEGIDKGAFAPCSGIHQRAICVYGAGDLNWLQNHLLANKFDPKVDNLAQCLE 509

QY 426 EKL 428

Db 510 EYL 512

RESULT 12

US-09-925-297-796

Sequence 796, Application US/09925297

Patent No. US20020081659A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

FILE REFERENCE: PA105

CURRENT APPLICATION NUMBER: US/09/925,297

PRIOR FILING DATE: 2001-08-10

PRIOR FILING DATE: 2000-03-08

PRIOR FILING DATE: 2000-03-08

PRIOR FILING DATE: 1999-03-12

NUMBER OF SEQ ID NOS: 928

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 796

LENGTH: 465

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SITE

LOCATION: (59)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

US-09-925-297-796

Query Match

Best Local Similarity 36.2%; Score 866; DB 9; Length 465;

Mismatches 182; Conservative 74; Mismatches 143; Indels 24; Gaps 10;

23 LWLLNS---LLKLVNRLFPQK---DIYLVESLSTSPFVRN-RYTHVKDEVREYVNCSSG 75

Db 40 LWALGCYMLLATVALKLSFRLKCDSDHIGLESRESQSQCERNILYNFLKLPKRSINCSG 99

QY 76 IY--EQEPL--EIGKSLERIRRDIIIDLEDDVVAMTSCDIYQTLRGYAQKLVKEEKSFP 131

Db 100 VTRGQEAVALQAILNNLEVKKR--EPFTDTHYLSLRDCEHFAERKFIQFPLSKEVEF 158

QY 132 PLAYSLVVHKDAIMVERLIHAIYNOHNIYCIHYDRKAPDTFKVAMNNLAKCFSPNFIASK 191

Db 159 PLAYSMVIEKTEINFERLLRAVAPQNIYCVHDEKSPETFEKAVKAIISCPNFIASK 218

QY 192 LEAVEYAHISRLQADLNCLSDLLKSSIQWKYVINLCGQDFPLKSNFELVSELKCLNGANM 251

Db 219 LVRVYASWSRVQADLNCLMEDLLQSSVPWKYFLNTCGTDFPKISNAEMVQALKMLNGRNS 278

QY 252 LETVKPNSKLERFTYHHLRVRVYEVKLPRTNISKEAPPNIQIFVGSAYFVLQAP 311

Db 279 MESEVPPKHETRWKYHFEVVR---DTLHL---TNKKDPPPNLTMTGNAVIVASRDF 332

QY 312 VKYIFNNSIVQDFPFWASKDTYSPDEHFWATLIRVPGIGEI--SRSAQDVSDLOSKTRLVK 370

Db 333 VQHVLPKPKSQQLIEWVKTYSPDEHLWATLQARWMPGSPVNPHPKIDISMTSIARLVK 392

QY 371 WNYVEGFF-----YPSCTGSHRSVCYIGAEELRLIKDGHWFANKFDSKVDPIILKCLA 425

Db 393 WQHEGIDKGAFAPCSGIHQRAICVYGAGDLNWLQNHLLANKFDPKVDNLAQCLE 452

QY 426 EKL 428

Db 453 EYL 455

RESULT 13

US-09-797-207-14

Sequence 14, Application US/09797207

Patent No. US20020098563A1

GENERAL INFORMATION:

APPLICANT: KORCZAK, BOZENA

TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-ACETYLGLYCOSAMINYLTRANSFERASE

FILE REFERENCE: GLYCO-7P1

CURRENT APPLICATION NUMBER: US/09/797,207

EARLIER FILING DATE: 2001-03-02

EARLIER FILING DATE: 2000-02-02

EARLIER FILING DATE: 2000-02-02

EARLIER FILING DATE: 1999-02-03

NUMBER OF SEQ ID NOS: 20

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 14

LENGTH: 428

TYPE: PRT

ORGANISM: Homo sapiens

US-09-797-207-14

Query Match

Best Local Similarity 36.1%; Score 863.5; DB 9; Length 428;

Mismatches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

28 LLKLVNRLFP--POKDIYLV-BYSLSTSPFVRNRYTHVKDE---VRY-----EV 71

Db 1 MLRTLLRRLPSYPTKYFVWLVSLITFSLVR---LHQKPEFVSVRHLELAGENPSSDI 57

QY 72 NCSGIYQEPLIEIGK-----SLSEIRRDIIEDDDVAMTSCDIYQTLRGYAQKLV 125

Db 58 NCTKVQLQDVNEIQVKLEILTAVFKKRP--RWTFDDYINNTSDCSSFIKRRKIYVEPLS 115

QY 126 KEESFPPIAYSLVWHKDAIMVERLIHAIYNOHNIYCIHYDRKAPDTFKVAMNNLAKCFSPN 185

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Db 116 KEEAFPPAYSIVVHKKIEMDLRLRALYMPQNFYCVHVDTKSDSYLAAMVGIASCFSN 175
QY 186 IFIASKLEAVEYAHISRLQADLNCLSLLKSSIQWKVYNLCGQDFPLKSNFELVSELKK 245
Db 176 VFVASLESVVYASRSRQADLNCMKDLYAMSAWKYLINLCGMDFFIKTNLEIVRKLK 235
QY 246 LAGANMLETVKPPNSKLERFTHHLELRVPYEVV--KLPIRTNISKEAPPNNIQTIFVGS 303
Db 236 LMGENNLETERMPHSKEERW-----KKRYEVVNGKL--TNTGTVMKLPLETPLFSGS 287
QY 304 YFVLSQAFVKYIFNNSIVQDFPFWSDTYSDEHFWATLIRVPGIPGEISRSQAQ-DVSDL 362
Db 288 YFVVSREYVGYLQNEKIQKLEMAQDTSYDPEYLWATIQRIPEVPGSLPASHKYDLSM 347
QY 363 QSKTRLVKNWYEGFP-----YPSCTGSHLSVCYIGAAELRWLIKDGHWFAKPFDSKYD 417
Db 348 QAVARFVKWQYFEGDVSKGAPYPCDGVHVSVCIFGAGDLNMLRKHLLFANKFDVDV 407
QY 418 PILIKLAELKEEQ 431
Db 408 LFAIQCLDEHLRHK 421

RESULT 14
US-10-388-307-13
; Sequence 13, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwientek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylgalactosamine-alpha-R / (GlcNAc
; TITLE OF INVENTION: to GalNAc) beta1,6-N-Acetylglucosamineyltransferase, C2Gnt3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/388,307
; PRIOR FILING DATE: 2003-03-13
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Human
US-10-388-307-13

Query Match 36.1%; Score 863.5; DB 12; Length 428;
Best Local Similarity 43.1%; Pred. No. 1.3e-73;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY 28 LKLLNVRRLF--PQKDIYLV-EYSLSTSPFVRNRYTHVKDE---VRY-----EV 71
Db 1 MLRTLLRRLLFSYPTKYFMVLVLSLITFSVLR---IHQPEFVSVRHLELAGENPSSDI 57
QY 72 NCSGIYEQPLEIGK-----SLEIRRDIIIDDDVWAMTSCDIYQTLRGVAKLVLS 125
Db 58 NCTKVLQGDVNEIQVKLEILTIVKFKRP--RWTDDYINMTSDCSSFIKRRKIIVEPLS 115
QY 126 KEEKSPPIAYSLVVKHDAIMVERLHAIYNQHNICYIHVDKAPDTFKVAMNMLAKCFSN 185
Db 116 KEEAFPIAYSIVVHKKIEMDLRLRALYMPQNFYCVHVDTKSDSYLAAMVGIASCFSN 175
QY 186 IFIASKLEAVEYAHISRLQADLNCLSLLKSSIQWKVYNLCGQDFPLKSNFELVSELKK 245
Db 176 VFVASLESVVYASRSRQADLNCMKDLYAMSAWKYLINLCGMDFFIKTNLEIVRKLK 235
QY 246 LAGANMLETVKPPNSKLERFTHHLELRVPYEVV--KLPIRTNISKEAPPNNIQTIFVGS 303
Db 236 LMGENNLETERMPHSKEERW-----KKRYEVVNGKL--TNTGTVMKLPLETPLFSGS 287
QY 304 YFVLSQAFVKYIFNNSIVQDFPFWSDTYSDEHFWATLIRVPGIPGEISRSQAQ-DVSDL 362
Db 288 YFVVSREYVGYLQNEKIQKLEMAQDTSYDPEYLWATIQRIPEVPGSLPASHKYDLSM 347
QY 363 QSKTRLVKNWYEGFP-----YPSCTGSHLSVCYIGAAELRWLIKDGHWFAKPFDSKYD 417
Db 348 QAVARFVKWQYFEGDVSKGAPYPCDGVHVSVCIFGAGDLNMLRKHLLFANKFDVDV 407
QY 418 PILIKLAELKEEQ 431
Db 408 LFAIQCLDEHLRHK 421
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[illegible]